BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents *will not* correct images, please do not report the images to the Image Problem Mailbox.

SEQUENCE LISTING

<110> INCYTE PHARMACEUTICALS, INC.
HILLMAN, Jennifer L.
TANG, Y. Tom
BANDMAN, Olga
LAL, Preeti
YUE, Henry
LU, Dyung Aina M.
BAUGHN, Mariah R.
YANG, Junming
AZIMZAI, Yalda

<120> GTPASE ASSOCIATED PROTEINS

<130> PF-0629 PCT

<140> To Be Assigned
<141> Herewith

<150> 60/109,592; 60/118,610; 60/127,990
<151> 1998-11-23; 1999-02-04; 1999-04-06

<160> 58

<170> PERL Program

<210> 1
<211> 1002
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 708398CD1

<400> 1
Met Pro Ser Lys Phe Ser Cys Arg Gln Leu Arg Glu Ala Gly Gln
1 5 10 15
Cys Phe Glu Ser Phe Leu Val Val Arg Gly Leu Asp Met Glu Thr
20 25 30
Asp Arg Glu Arg Leu Arg Thr Ile Tyr Asn Arg Asp Phe Lys Ile
35 40 45
Ser Phe Gly Thr Pro Ala Pro Gly Phe Ser Ser Met Leu Tyr Gly
50 55 60
Met Lys Ile Ala Asn Leu Ala Tyr Val Thr Lys Thr Arg Val Arg
65 70 75
Phe Phe Arg Leu Asp Arg Trp Ala Asp Val Arg Phe Pro Glu Lys
80 85 90
Arg Arg Met Lys Leu Gly Ser Asp Ile Ser Lys His His Lys Ser
95 100 105
Leu Leu Ala Lys Ile Phe Tyr Asp Arg Ala Glu Tyr Leu His Gly
110 115 120
Lys His Gly Val Asp Val Glu Val Gln Gly Pro His Glu Ala Arg

```
                125                 130                 135
Asp Gly Gln Leu Leu Ile Arg Leu Asp Leu Asn Arg Lys Glu Val
            140                 145                 150
Leu Thr Leu Arg Leu Arg Asn Gly Gly Thr Gln Ser Val Thr Leu
            155                 160                 165
Thr His Leu Phe Pro Leu Cys Arg Thr Pro Gln Phe Ala Phe Tyr
            170                 175                 180
Asn Glu Asp Gln Glu Leu Pro Cys Pro Leu Gly Pro Gly Glu Cys
            185                 190                 195
Tyr Glu Leu His Val His Cys Lys Thr Ser Phe Val Gly Tyr Phe
            200                 205                 210
Pro Ala Thr Val Leu Trp Glu Leu Leu Gly Pro Gly Glu Ser Gly
            215                 220                 225
Ser Glu Gly Ala Gly Thr Phe Tyr Ile Ala Arg Phe Leu Ala Ala
            230                 235                 240
Val Ala His Ser Pro Leu Ala Ala Gln Leu Lys Pro Met Thr Pro
            245                 250                 255
Phe Lys Arg Thr Arg Ile Thr Gly Asn Pro Val Val Thr Asn Arg
            260                 265                 270
Ile Glu Glu Gly Glu Arg Pro Asp Arg Ala Lys Gly Tyr Asp Leu
            275                 280                 285
Glu Leu Ser Met Ala Leu Gly Thr Tyr Tyr Pro Pro Pro Arg Leu
            290                 295                 300
Arg Gln Leu Leu Pro Met Leu Leu Gln Gly Thr Ser Ile Phe Thr
            305                 310                 315
Ala Pro Lys Glu Ile Ala Glu Ile Lys Ala Gln Leu Glu Thr Ala
            320                 325                 330
Leu Lys Trp Arg Asn Tyr Glu Val Lys Leu Arg Leu Leu Leu His
            335                 340                 345
Leu Glu Glu Leu Gln Met Glu His Asp Ile Arg His Tyr Asp Leu
            350                 355                 360
Glu Ser Val Pro Met Thr Trp Asp Pro Val Asp Gln Asn Pro Arg
            365                 370                 375
Leu Leu Thr Leu Glu Val Pro Gly Val Thr Glu Ser Arg Pro Ser
            380                 385                 390
Val Leu Arg Gly Asp His Leu Phe Ala Leu Leu Ser Ser Glu Thr
            395                 400                 405
His Gln Glu Asp Pro Ile Thr Tyr Lys Gly Phe Val His Lys Val
            410                 415                 420
Glu Leu Asp Arg Val Lys Leu Ser Phe Ser Met Ser Leu Leu Ser
            425                 430                 435
Arg Phe Val Asp Gly Leu Thr Phe Lys Val Asn Phe Thr Phe Asn
            440                 445                 450
Arg Gln Pro Leu Arg Val Gln His Arg Ala Leu Glu Leu Thr Gly
            455                 460                 465
Arg Trp Leu Leu Trp Pro Met Leu Phe Pro Val Ala Pro Arg Asp
            470                 475                 480
Val Pro Leu Leu Pro Ser Asp Val Lys Leu Lys Leu Tyr Asp Arg
            485                 490                 495
Ser Leu Glu Ser Asn Pro Glu Gln Leu Gln Ala Met Arg His Ile
            500                 505                 510
Val Thr Gly Thr Thr Arg Pro Ala Pro Tyr Ile Ile Phe Gly Pro
            515                 520                 525
Pro Gly Thr Gly Lys Thr Val Thr Leu Val Glu Ala Ile Lys Gln
            530                 535                 540
```

```
Val Val Lys His Leu Pro Lys Ala His Ile Leu Ala Cys Ala Pro
545                 550                 555
Ser Asn Ser Gly Ala Asp Leu Leu Cys Gln Arg Leu Arg Val His
560                 565                 570
Leu Pro Ser Ser Ile Tyr Arg Leu Leu Ala Pro Ser Arg Asp Ile
575                 580                 585
Arg Met Val Pro Glu Asp Ile Lys Pro Cys Cys Asn Trp Asp Ala
590                 595                 600
Lys Lys Gly Glu Tyr Val Phe Pro Ala Lys Lys Lys Leu Gln Glu
605                 610                 615
Tyr Arg Val Leu Ile Thr Thr Leu Ile Thr Ala Gly Arg Leu Val
620                 625                 630
Ser Ala Gln Phe Pro Ile Asp His Phe Thr His Ile Phe Ile Asp
635                 640                 645
Glu Ala Gly His Cys Met Glu Pro Glu Ser Leu Val Ala Ile Ala
650                 655                 660
Gly Leu Met Glu Val Lys Glu Thr Gly Asp Pro Gly Gly Gln Leu
665                 670                 675
Val Leu Ala Gly Asp Pro Arg Gln Leu Gly Pro Val Leu Arg Ser
680                 685                 690
Pro Leu Thr Gln Lys His Gly Leu Gly Tyr Ser Leu Leu Glu Arg
695                 700                 705
Leu Leu Ile Tyr Asn Ser Leu Tyr Lys Lys Gly Pro Asp Gly Tyr
710                 715                 720
Asp Pro Gln Phe Ile Thr Lys Leu Leu Arg Asn Tyr Arg Ser His
725                 730                 735
Pro Thr Ile Leu Asp Ile Pro Asn Gln Leu Tyr Tyr Glu Gly Glu
740                 745                 750
Leu Gln Ala Cys Ala Asp Val Val Asp Arg Glu Arg Phe Cys Arg
755                 760                 765
Trp Ala Gly Leu Pro Arg Gln Gly Phe Pro Ile Ile Phe His Gly
770                 775                 780
Val Met Gly Lys Asp Glu Arg Glu Gly Asn Ser Pro Ser Phe Phe
785                 790                 795
Asn Pro Glu Glu Ala Ala Thr Val Thr Ser Tyr Leu Lys Leu Leu
800                 805                 810
Leu Ala Pro Ser Ser Lys Lys Gly Lys Ala Arg Leu Ser Pro Arg
815                 820                 825
Ser Val Gly Val Ile Ser Pro Tyr Arg Lys Gln Val Glu Lys Ile
830                 835                 840
Arg Tyr Cys Ile Thr Lys Leu Asp Arg Glu Leu Arg Gly Leu Asp
845                 850                 855
Asp Ile Lys Asp Leu Lys Val Gly Ser Val Glu Glu Phe Gln Gly
860                 865                 870
Gln Glu Arg Ser Val Ile Leu Ile Ser Thr Val Arg Ser Ser Gln
875                 880                 885
Ser Phe Val Gln Leu Asp Leu Asp Phe Asn Leu Gly Phe Leu Lys
890                 895                 900
Asn Pro Lys Arg Phe Asn Val Ala Val Thr Arg Ala Lys Ala Leu
905                 910                 915
Leu Ile Ile Val Gly Asn Pro Leu Leu Leu Gly His Asp Pro Asp
920                 925                 930
Trp Lys Val Phe Leu Glu Phe Cys Lys Glu Asn Gly Gly Tyr Thr
935                 940                 945
Gly Cys Pro Phe Pro Ala Lys Leu Asp Leu Gln Gln Gly Gln Asn
```

```
                950                 955                 960
Leu Leu Gln Gly Leu Ser Lys Leu Ser Pro Ser Thr Ser Gly Pro
                965                 970                 975
His Ser His Asp Tyr Leu Pro Gln Glu Arg Glu Gly Glu Gly Gly
                980                 985                 990
Leu Ser Leu Gln Val Glu Pro Glu Trp Arg Asn Glu
                995                1000
```

<210> 2
<211> 338
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1259937CD1

<400> 2

```
Met Ala Ala Leu Ala Gln Glu Asp Gly Trp Thr Lys Gly Gln Val
  1               5                  10                  15
Leu Val Lys Val Asn Ser Ala Gly Asp Ala Ile Gly Leu Gln Pro
             20                  25                  30
Asp Ala Arg Gly Val Ala Thr Ser Leu Gly Leu Asn Glu Arg Leu
             35                  40                  45
Phe Val Val Asn Pro Gln Glu Val His Glu Leu Ile Pro His Pro
             50                  55                  60
Asp Gln Leu Gly Pro Thr Val Gly Ser Ala Glu Gly Leu Asp Leu
             65                  70                  75
Val Ser Ala Lys Asp Leu Ala Gly Gln Leu Thr Asp His Asp Trp
             80                  85                  90
Ser Leu Phe Asn Ser Ile His Gln Val Glu Leu Ile His Tyr Val
             95                 100                 105
Leu Gly Pro Gln His Leu Arg Asp Val Thr Thr Ala Asn Leu Glu
            110                 115                 120
Arg Phe Met Arg Arg Phe Asn Glu Leu Gln Tyr Trp Val Ala Thr
            125                 130                 135
Glu Leu Cys Leu Cys Pro Val Pro Gly Pro Arg Ala Gln Leu Leu
            140                 145                 150
Arg Lys Phe Ile Lys Leu Ala Ala His Leu Lys Glu Gln Lys Asn
            155                 160                 165
Leu Asn Ser Phe Phe Ala Val Met Phe Gly Leu Ser Asn Ser Ala
            170                 175                 180
Ile Ser Arg Leu Ala His Thr Trp Glu Arg Leu Pro His Lys Val
            185                 190                 195
Arg Lys Leu Tyr Ser Ala Leu Glu Arg Leu Leu Asp Pro Ser Trp
            200                 205                 210
Asn His Arg Val Tyr Arg Leu Ala Leu Ala Lys Leu Ser Pro Pro
            215                 220                 225
Val Ile Pro Phe Met Pro Leu Leu Leu Lys Asp Met Thr Phe Ile
            230                 235                 240
His Glu Gly Asn His Thr Leu Val Glu Asn Leu Ile Asn Phe Glu
            245                 250                 255
Lys Met Arg Met Met Ala Arg Ala Ala Arg Met Leu His His Cys
            260                 265                 270
```

```
Arg Ser His Asn Pro Val Pro Leu Ser Pro Leu Arg Ser Arg Val
                275                 280                 285
Ser His Leu His Glu Asp Ser Gln Val Ala Arg Ile Ser Thr Cys
                290                 295                 300
Ser Glu Gln Ser Leu Ser Thr Arg Ser Pro Ala Ser Thr Trp Ala
                305                 310                 315
Tyr Val Gln Gln Leu Lys Val Ile Asp Asn Gln Arg Glu Leu Ser
                320                 325                 330
Arg Leu Ser Arg Glu Leu Glu Pro
                335
```

<210> 3
<211> 211
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1452285CD1

<400> 3

```
Met Gln Ala Pro His Lys Glu His Leu Tyr Lys Leu Leu Val Ile
  1                 5                  10                  15
Gly Asp Leu Gly Val Gly Lys Thr Ser Ile Ile Lys Arg Tyr Val
                 20                  25                  30
His Gln Asn Phe Ser Ser His Tyr Arg Ala Thr Ile Gly Val Asp
                 35                  40                  45
Phe Ala Leu Lys Val Leu His Trp Asp Pro Glu Thr Val Val Arg
                 50                  55                  60
Leu Gln Leu Trp Asp Ile Ala Gly Gln Glu Arg Phe Gly Asn Met
                 65                  70                  75
Thr Arg Val Tyr Tyr Arg Glu Ala Met Gly Ala Phe Ile Val Phe
                 80                  85                  90
Asp Val Thr Arg Pro Ala Thr Phe Glu Ala Val Ala Lys Trp Lys
                 95                 100                 105
Asn Asp Leu Asp Ser Lys Leu Ser Leu Pro Asn Gly Lys Pro Val
                110                 115                 120
Ser Val Val Leu Leu Ala Asn Lys Cys Asp Gln Gly Lys Asp Val
                125                 130                 135
Leu Met Asn Asn Gly Leu Lys Met Asp Gln Phe Cys Lys Glu His
                140                 145                 150
Gly Phe Val Gly Trp Phe Glu Thr Ser Ala Lys Glu Asn Ile Asn
                155                 160                 165
Ile Asp Glu Ala Ser Arg Cys Leu Val Lys His Ile Leu Ala Asn
                170                 175                 180
Glu Cys Asp Leu Met Glu Ser Ile Glu Pro Asp Val Val Lys Pro
                185                 190                 195
His Leu Thr Ser Thr Lys Val Ala Ser Cys Ser Gly Cys Ala Lys
                200                 205                 210
Ser
```

<210> 4
<211> 516

<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1812894CD1

<400> 4

```
Met Glu Thr Met Lys Ala Val Ala Glu Val Ser Glu Ser Thr Lys
  1               5                  10                  15
Ala Glu Ala Val Ala Ala Val Gln Arg Gln Cys Gln Glu Glu Val
             20                  25                  30
Ala Ser Leu Gln Ala Ile Leu Lys Asp Ser Ile Ser Ser Tyr Glu
             35                  40                  45
Ala Gln Ile Thr Ala Leu Lys Gln Glu Arg Gln Gln Gln Gln Gln
             50                  55                  60
Asp Cys Glu Glu Lys Glu Arg Glu Leu Gly Arg Leu Lys Gln Leu
             65                  70                  75
Leu Ser Arg Ala Tyr Pro Leu Asp Ser Leu Glu Lys Gln Met Glu
             80                  85                  90
Lys Ala His Glu Asp Ser Glu Lys Leu Arg Glu Ile Val Leu Pro
             95                 100                 105
Met Glu Lys Glu Ile Glu Glu Leu Lys Ala Lys Leu Leu Arg Ala
            110                 115                 120
Glu Glu Leu Ile Gln Glu Ile Gln Arg Arg Pro Arg His Ala Pro
            125                 130                 135
Ser Leu His Gly Ser Thr Glu Leu Leu Pro Leu Ser Arg Asp Pro
            140                 145                 150
Ser Pro Pro Leu Glu Pro Leu Glu Glu Leu Ser Gly Asp Gly Gly
            155                 160                 165
Pro Ala Ala Glu Ala Phe Ala His Asn Cys Asp Asp Ser Ala Ser
            170                 175                 180
Ile Ser Ser Phe Ser Leu Gly Gly Gly Val Gly Ser Ser Ser Ser
            185                 190                 195
Leu Pro Gln Ser Arg Gln Gly Leu Ser Pro Glu Gln Glu Glu Thr
            200                 205                 210
Ala Ser Leu Val Ser Thr Gly Thr Leu Val Pro Glu Gly Ile Tyr
            215                 220                 225
Leu Pro Pro Pro Gly Tyr Gln Leu Val Pro Asp Thr Gln Trp Glu
            230                 235                 240
Gln Leu Gln Thr Glu Gly Arg Gln Leu Gln Lys Asp Leu Glu Ser
            245                 250                 255
Val Ser Arg Glu Arg Asp Glu Leu Gln Glu Gly Leu Arg Arg Ser
            260                 265                 270
Asn Glu Asp Cys Ala Lys Gln Met Gln Val Leu Leu Ala Gln Val
            275                 280                 285
Gln Asn Ser Glu Gln Leu Leu Arg Thr Leu Gln Gly Thr Val Ser
            290                 295                 300
Gln Ala Gln Glu Arg Val Gln Leu Gln Met Ala Glu Leu Val Thr
            305                 310                 315
Thr His Lys Cys Leu His His Glu Val Lys Arg Leu Asn Glu Glu
            320                 325                 330
Asn Gln Gly Leu Arg Ala Glu Gln Leu Pro Ser Ser Ala Pro Gln
            335                 340                 345
Gly Ser Gln Gln Glu Gln Gly Glu Glu Glu Ser Leu Pro Ser Ser
```

```
                  350                 355                 360
Val Pro Glu Leu Gln Gln Leu Leu Cys Cys Thr Arg Gln Glu Ala
                  365                 370                 375
Arg Ala Arg Leu Gln Ala Gln Glu His Gly Ala Glu Arg Leu Arg
                  380                 385                 390
Ile Glu Ile Val Thr Leu Arg Glu Ala Leu Glu Glu Glu Thr Val
                  395                 400                 405
Ala Arg Ala Ser Leu Glu Gly Gln Leu Arg Val Gln Arg Glu Glu
                  410                 415                 420
Thr Glu Val Leu Glu Ala Ser Leu Cys Ser Leu Arg Thr Glu Met
                  425                 430                 435
Glu Arg Val Gln Gln Glu Gln Ser Lys Ala Gln Leu Pro Asp Leu
                  440                 445                 450
Leu Ser Glu Gln Arg Ala Lys Val Leu Arg Leu Gln Ala Glu Leu
                  455                 460                 465
Glu Thr Ser Glu Gln Val Gln Arg Asp Phe Val Arg Leu Ser Gln
                  470                 475                 480
Ala Leu Gln Val Arg Leu Glu Arg Ile Arg Gln Ala Glu Thr Leu
                  485                 490                 495
Glu Gln Val Arg Ser Ile Met Asp Glu Ala Pro Leu Thr Asp Val
                  500                 505                 510
Arg Asp Ile Lys Asp Thr
                  515
```

<210> 5
<211> 445
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3074884CD1

```
<400> 5
Met Pro Glu Asp Ala Asp Glu Asn Ala Glu Glu Glu Leu Leu Arg
  1                 5                  10                  15
Gly Glu Pro Leu Leu Pro Ala Gly Thr Gln Arg Val Cys Leu Val
                 20                  25                  30
His Pro Asp Val Lys Trp Gly Pro Gly Lys Ser Gln Met Thr Arg
                 35                  40                  45
Ala Glu Trp Gln Val Ala Glu Ala Thr Ala Leu Val His Thr Leu
                 50                  55                  60
Asp Gly Trp Ser Val Val Gln Thr Met Val Val Ser Thr Lys Thr
                 65                  70                  75
Pro Asp Arg Lys Leu Ile Phe Gly Lys Gly Asn Phe Glu His Leu
                 80                  85                  90
Thr Glu Lys Ile Arg Gly Ser Pro Asp Val Thr Cys Val Phe Leu
                 95                 100                 105
Asn Val Glu Arg Met Ala Ala Pro Thr Lys Lys Glu Leu Glu Ala
                110                 115                 120
Ala Trp Gly Val Glu Val Phe Asp Arg Phe Thr Val Val Leu His
                125                 130                 135
Ile Phe Arg Cys Asn Ala Arg Thr Lys Glu Ala Arg Leu Gln Val
                140                 145                 150
```

```
Ala Leu Ala Glu Met Pro Leu His Arg Ser Asn Leu Lys Arg Asp
                155                 160                 165
Val Ala His Leu Tyr Arg Gly Val Gly Ser Arg Tyr Ile Met Gly
                170                 175                 180
Ser Gly Glu Ser Phe Met Gln Leu Gln Gln Arg Leu Leu Arg Glu
                185                 190                 195
Lys Glu Ala Lys Ile Arg Lys Ala Leu Asp Arg Leu Arg Lys Lys
                200                 205                 210
Arg His Leu Leu Arg Arg Gln Arg Thr Arg Arg Glu Phe Pro Val
                215                 220                 225
Ile Ser Val Val Gly Tyr Thr Asn Cys Gly Lys Thr Thr Leu Ile
                230                 235                 240
Lys Ala Leu Thr Gly Asp Ala Ala Ile Gln Pro Arg Asp Gln Leu
                245                 250                 255
Phe Ala Thr Leu Asp Val Thr Ala His Ala Gly Thr Leu Pro Ser
                260                 265                 270
Arg Met Thr Val Leu Tyr Val Asp Thr Ile Gly Phe Leu Ser Gln
                275                 280                 285
Leu Pro His Gly Leu Ile Glu Ser Phe Ser Ala Thr Leu Glu Asp
                290                 295                 300
Val Ala His Ser Asp Leu Ile Leu His Val Arg Asp Val Ser His
                305                 310                 315
Pro Glu Ala Glu Leu Gln Lys Cys Ser Val Leu Ser Thr Leu Arg
                320                 325                 330
Gly Leu Gln Leu Pro Ala Pro Leu Leu Asp Ser Met Val Glu Val
                335                 340                 345
His Asn Lys Val Asp Leu Val Pro Gly Tyr Ser Pro Thr Glu Pro
                350                 355                 360
Asn Val Val Pro Val Ser Ala Leu Arg Gly His Gly Leu Gln Glu
                365                 370                 375
Leu Lys Ala Glu Leu Asp Ala Ala Val Leu Lys Ala Thr Gly Arg
                380                 385                 390
Gln Ile Leu Thr Leu Arg Val Arg Leu Ala Gly Ala Gln Leu Ser
                395                 400                 405
Trp Leu Tyr Lys Glu Ala Thr Val Gln Glu Val Asp Val Ile Pro
                410                 415                 420
Glu Asp Gly Ala Ala Asp Val Arg Val Ile Ile Ser Asn Ser Ala
                425                 430                 435
Tyr Gly Lys Phe Arg Lys Leu Phe Pro Gly
                440                 445
```

<210> 6
<211> 445
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3452277CD1

<400> 6

```
Met Tyr Tyr Gln Gln Ala Leu Met Arg Ser Thr Val Lys Ser Ser
  1               5                  10                  15
Val Ser Leu Gly Gly Ile Val Lys Tyr Ser Glu Gln Phe Ser Ser
```

```
                  20                  25                  30
Asn Asp Ala Ile Met Ser Gly Cys Leu Pro Ser Asn Pro Trp Ile
                  35                  40                  45
Thr Asp Asp Thr Gln Phe Trp Asp Leu Asn Ala Lys Leu Val Glu
                  50                  55                  60
Ile Pro Thr Lys Met Arg Val Glu Arg Trp Ala Phe Asn Phe Ser
                  65                  70                  75
Glu Leu Ile Arg Asp Pro Lys Gly Arg Gln Ser Phe Gln Tyr Phe
                  80                  85                  90
Leu Lys Lys Glu Phe Ser Gly Glu Asn Leu Gly Phe Trp Glu Ala
                  95                 100                 105
Cys Glu Asp Leu Lys Tyr Gly Asp Gln Ser Lys Val Lys Glu Lys
                 110                 115                 120
Ala Glu Glu Ile Tyr Lys Leu Phe Leu Ala Pro Gly Ala Arg Arg
                 125                 130                 135
Trp Ile Asn Ile Asp Gly Lys Thr Met Asp Ile Thr Val Lys Gly
                 140                 145                 150
Leu Lys His Pro His Arg Tyr Val Leu Asp Ala Ala Gln Thr His
                 155                 160                 165
Ile Tyr Met Leu Met Lys Lys Asp Ser Tyr Ala Arg Tyr Leu Lys
                 170                 175                 180
Ser Pro Ile Tyr Lys Asp Met Leu Ala Lys Ala Ile Glu Pro Gln
                 185                 190                 195
Glu Thr Thr Lys Lys Ser Ser Thr Leu Pro Phe Met Arg Arg His
                 200                 205                 210
Leu Arg Ser Ser Pro Ser Pro Val Ile Leu Arg Gln Leu Glu Glu
                 215                 220                 225
Glu Ala Lys Ala Arg Glu Ala Ala Asn Thr Val Asp Ile Thr Gln
                 230                 235                 240
Pro Gly Gln His Met Ala Pro Ser Pro His Leu Thr Val Tyr Thr
                 245                 250                 255
Gly Thr Cys Met Pro Pro Ser Pro Ser Ser Pro Phe Ser Ser Ser
                 260                 265                 270
Cys Arg Ser Pro Arg Lys Pro Phe Ala Ser Pro Ser Arg Phe Ile
                 275                 280                 285
Arg Arg Pro Ser Thr Thr Ile Cys Pro Ser Pro Ile Arg Val Ala
                 290                 295                 300
Leu Glu Ser Ser Ser Gly Leu Glu Gln Lys Gly Glu Cys Ser Gly
                 305                 310                 315
Ser Met Ala Pro Arg Gly Pro Ser Val Thr Glu Ser Ser Glu Ala
                 320                 325                 330
Ser Leu Asp Thr Ser Trp Pro Arg Ser Arg Pro Arg Ala Pro Pro
                 335                 340                 345
Lys Ala Arg Met Ala Leu Ser Phe Ser Arg Phe Leu Arg Arg Gly
                 350                 355                 360
Cys Leu Ala Ser Pro Val Phe Ala Arg Leu Ser Pro Lys Cys Pro
                 365                 370                 375
Ala Val Ser His Gly Arg Val Gln Pro Leu Gly Asp Val Gly Gln
                 380                 385                 390
Gln Leu Pro Arg Leu Lys Ser Lys Arg Val Ala Asn Phe Phe Gln
                 395                 400                 405
Ile Lys Met Asp Val Pro Thr Gly Ser Gly Thr Cys Leu Met Asp
                 410                 415                 420
Ser Glu Asp Ala Gly Thr Gly Glu Ser Gly Asp Arg Ala Thr Glu
                 425                 430                 435
```

```
Lys Glu Val Ile Cys Pro Trp Glu Ser Leu
                440                 445


<210> 7
<211> 281
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No:  4203832CD1

<400> 7
Met Lys Leu Ala Ala Met Ile Lys Lys Met Cys Pro Ser Asp Ser
  1               5                  10                  15
Glu Leu Ser Ile Pro Ala Lys Asn Cys Tyr Arg Met Val Ile Leu
             20                  25                  30
Gly Ser Ser Lys Val Gly Lys Thr Ala Ile Val Ser Arg Phe Leu
             35                  40                  45
Thr Gly Arg Phe Glu Asp Ala Tyr Thr Pro Thr Ile Glu Asp Phe
             50                  55                  60
His Arg Lys Phe Tyr Ser Ile Arg Gly Glu Val Tyr Gln Leu Asp
             65                  70                  75
Ile Leu Asp Thr Ser Gly Asn His Pro Phe Pro Ala Met Arg Cys
             80                  85                  90
Leu Ser Ile Leu Thr Gly Asp Val Phe Ile Leu Val Phe Ser Leu
             95                 100                 105
Asp Asn Arg Asp Ser Phe Glu Glu Val Gln Arg Leu Arg Gln Gln
            110                 115                 120
Ile Leu Asp Thr Lys Ser Cys Leu Lys Asn Lys Thr Lys Glu Asn
            125                 130                 135
Val Asp Val Pro Leu Val Ile Cys Gly Asn Lys Gly Asp Arg Asp
            140                 145                 150
Phe Tyr Arg Glu Val Asp Gln Arg Glu Ile Glu Gln Leu Val Gly
            155                 160                 165
Asp Asp Pro Gln Arg Cys Ala Tyr Phe Glu Ile Ser Ala Lys Lys
            170                 175                 180
Asn Ser Ser Leu Asp Gln Met Phe Arg Ala Leu Phe Ala Met Ala
            185                 190                 195
Lys Leu Pro Ser Glu Met Ser Pro Asp Leu His Arg Lys Val Ser
            200                 205                 210
Val Gln Tyr Cys Asp Val Leu His Lys Lys Ala Leu Arg Asn Lys
            215                 220                 225
Lys Leu Leu Arg Ala Gly Ser Gly Gly Gly Gly Gly Asp Pro Gly
            230                 235                 240
Asp Ala Phe Gly Ile Val Ala Pro Phe Ala Arg Arg Pro Ser Val
            245                 250                 255
His Ser Asp Leu Met Tyr Ile Arg Glu Lys Ala Ser Ala Gly Ser
            260                 265                 270
Gln Ala Lys Asp Lys Glu Arg Cys Val Ile Ser
            275                 280

<210> 8
<211> 301
<212> PRT
```

<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 104368CD1

<400> 8
Met Thr Thr Leu Asp Asp Lys Leu Leu Gly Glu Lys Leu Gln Tyr
1 5 10 15
Tyr Tyr Ser Ser Ser Glu Asp Glu Asp Ser Asp His Glu Asp Lys
20 25 30
Asp Arg Gly Arg Cys Ala Pro Ala Ser Ser Ser Val Pro Ala Glu
35 40 45
Ala Glu Leu Ala Gly Glu Gly Ile Ser Val Asn Thr Gly Pro Lys
50 55 60
Gly Val Ile Asn Asp Trp Arg Arg Phe Lys Gln Leu Glu Thr Glu
65 70 75
Gln Arg Glu Glu Gln Cys Arg Glu Met Glu Arg Leu Ile Lys Lys
80 85 90
Leu Ser Met Thr Cys Arg Ser His Leu Asp Glu Glu Glu Glu Gln
95 100 105
Gln Lys Gln Lys Asp Leu Gln Glu Lys Ile Ser Gly Lys Met Thr
110 115 120
Leu Lys Glu Phe Ala Ile Met Asn Glu Asp Gln Asp Asp Glu Glu
125 130 135
Phe Leu Gln Gln Tyr Arg Lys Gln Arg Met Glu Glu Met Arg Gln
140 145 150
Gln Leu His Lys Gly Pro Gln Phe Lys Gln Val Phe Glu Ile Ser
155 160 165
Ser Gly Glu Gly Phe Leu Asp Met Ile Asp Lys Glu Gln Lys Ser
170 175 180
Ile Val Ile Met Val His Ile Tyr Glu Asp Gly Ile Pro Gly Thr
185 190 195
Glu Ala Met Asn Gly Cys Met Ile Cys Leu Ala Ala Glu Tyr Pro
200 205 210
Ala Val Lys Phe Cys Lys Val Lys Ser Ser Val Ile Gly Ala Ser
215 220 225
Ser Gln Phe Thr Arg Asn Ala Leu Pro Ala Leu Leu Ile Tyr Lys
230 235 240
Gly Gly Glu Leu Ile Gly Asn Phe Val Arg Val Thr Asp Gln Leu
245 250 255
Gly Asp Asp Phe Phe Ala Val Asp Leu Glu Ala Phe Leu Gln Glu
260 265 270
Phe Gly Leu Leu Pro Glu Lys Glu Val Leu Val Leu Thr Ser Val
275 280 285
Arg Asn Ser Ala Thr Cys His Ser Glu Asp Ser Asp Leu Glu Ile
290 295 300
Asp

<210> 9
<211> 485
<212> PRT

<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1441680CD1

<400> 9

```
Met Arg Ala Val Leu Thr Trp Arg Asp Lys Ala Glu His Cys Ile
  1               5                  10                  15
Asn Asp Ile Ala Phe Lys Pro Asp Gly Thr Gln Leu Ile Leu Ala
                 20                  25                  30
Ala Gly Ser Arg Leu Leu Val Tyr Asp Thr Ser Asp Gly Thr Leu
                 35                  40                  45
Leu Gln Pro Leu Lys Gly His Lys Asp Thr Val Tyr Cys Val Ala
                 50                  55                  60
Tyr Ala Lys Asp Gly Lys Arg Phe Ala Ser Gly Ser Ala Asp Lys
                 65                  70                  75
Ser Val Ile Ile Trp Thr Ser Lys Leu Glu Gly Ile Leu Lys Tyr
                 80                  85                  90
Thr His Asn Asp Ala Ile Gln Cys Val Ser Tyr Asn Pro Ile Thr
                 95                 100                 105
His Gln Leu Ala Ser Cys Ser Ser Ser Asp Phe Gly Leu Trp Ser
                110                 115                 120
Pro Glu Gln Lys Ser Val Ser Lys His Lys Ser Ser Ser Lys Ile
                125                 130                 135
Ile Cys Cys Ser Trp Thr Asn Asp Gly Gln Tyr Leu Ala Leu Gly
                140                 145                 150
Met Phe Asn Gly Ile Ile Ser Ile Arg Asn Lys Asn Gly Glu Glu
                155                 160                 165
Lys Val Lys Ile Glu Arg Pro Gly Gly Ser Leu Ser Pro Ile Trp
                170                 175                 180
Ser Ile Cys Trp Asn Pro Ser Arg Glu Glu Arg Asn Asp Ile Leu
                185                 190                 195
Ala Val Ala Asp Trp Gly Gln Lys Val Ser Phe Tyr Gln Leu Ser
                200                 205                 210
Gly Lys Gln Ile Gly Lys Asp Arg Ala Leu Asn Phe Asp Pro Cys
                215                 220                 225
Cys Ile Ser Tyr Phe Thr Lys Gly Glu Tyr Ile Leu Leu Gly Gly
                230                 235                 240
Ser Asp Lys Gln Val Ser Leu Phe Thr Lys Asp Gly Val Arg Leu
                245                 250                 255
Gly Thr Val Gly Glu Gln Asn Ser Trp Val Trp Thr Cys Gln Ala
                260                 265                 270
Lys Pro Asp Ser Asn Tyr Val Val Val Gly Cys Gln Asp Gly Thr
                275                 280                 285
Ile Ser Phe Tyr Gln Leu Ile Phe Ser Thr Val His Gly Val Tyr
                290                 295                 300
Lys Asp Arg Tyr Ala Tyr Arg Asp Ser Met Thr Asp Val Ile Val
                305                 310                 315
Gln His Leu Ile Thr Glu Gln Lys Val Arg Ile Lys Cys Lys Glu
                320                 325                 330
Leu Val Lys Lys Ile Ala Ile Tyr Arg Asn Arg Leu Ala Ile Gln
                335                 340                 345
Leu Pro Glu Lys Ile Leu Ile Tyr Glu Leu Tyr Ser Glu Asp Leu
                350                 355                 360
```

```
Ser Asp Met His Tyr Arg Val Lys Glu Lys Ile Ile Lys Lys Phe
                365                 370                 375
Glu Cys Asn Leu Leu Val Val Cys Ala Asn His Ile Ile Leu Cys
                380                 385                 390
Gln Glu Lys Arg Leu Gln Cys Leu Ser Phe Ser Gly Val Lys Glu
                395                 400                 405
Arg Glu Trp Gln Met Glu Ser Leu Ile Arg Tyr Ile Lys Val Ile
                410                 415                 420
Gly Gly Pro Pro Gly Arg Glu Gly Leu Leu Val Gly Leu Lys Lys
                425                 430                 435
Met Tyr Leu Leu Val Tyr Ser Phe Ile Leu Ile Val Lys Asp Tyr
                440                 445                 450
Phe Ser Leu Ser Thr Asp Val Leu Gly Asn Leu Thr Trp Lys His
                455                 460                 465
Val Cys Lys Lys His Tyr Trp Val Phe His Leu Phe Ser Trp Tyr
                470                 475                 480
Tyr Ile Phe Val Gln
                485
```

<210> 10
<211> 447
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1494955CD1

<400> 10

```
Met Glu Leu Ser Gln Met Ser Glu Leu Met Gly Leu Ser Val Leu
  1                 5                  10                  15
Leu Gly Leu Leu Ala Leu Met Ala Thr Ala Ala Val Ala Arg Gly
                 20                  25                  30
Trp Leu Arg Ala Gly Glu Glu Arg Ser Gly Arg Pro Ala Cys Gln
                 35                  40                  45
Lys Ala Asn Gly Phe Pro Pro Asp Lys Ser Ser Gly Ser Lys Lys
                 50                  55                  60
Gln Lys Gln Tyr Gln Arg Ile Arg Lys Glu Lys Pro Gln Gln His
                 65                  70                  75
Asn Phe Thr His Arg Leu Leu Ala Ala Ala Leu Lys Ser His Ser
                 80                  85                  90
Gly Asn Ile Ser Cys Met Asp Phe Ser Ser Asn Gly Lys Tyr Leu
                 95                 100                 105
Ala Thr Cys Ala Asp Asp Arg Thr Ile Arg Ile Trp Ser Thr Lys
                110                 115                 120
Asp Phe Leu Gln Arg Glu His Arg Ser Met Arg Ala Asn Val Glu
                125                 130                 135
Leu Asp His Ala Thr Leu Val Arg Phe Ser Pro Asp Cys Arg Ala
                140                 145                 150
Phe Ile Val Trp Leu Ala Asn Gly Asp Thr Leu Arg Val Phe Lys
                155                 160                 165
Met Thr Lys Arg Glu Asp Gly Gly Tyr Thr Phe Thr Ala Thr Pro
                170                 175                 180
Glu Asp Phe Pro Lys Lys His Lys Ala Pro Val Ile Asp Ile Gly
```

```
                185                 190                 195
Ile Ala Asn Thr Gly Lys Phe Ile Met Thr Ala Ser Ser Asp Thr
                200                 205                 210
Thr Val Leu Ile Trp Ser Leu Lys Gly Gln Val Leu Ser Thr Ile
                215                 220                 225
Asn Thr Asn Gln Met Asn Asn Thr His Ala Ala Val Ser Pro Cys
                230                 235                 240
Gly Arg Phe Val Ala Ser Cys Gly Phe Thr Pro Asp Val Lys Val
                245                 250                 255
Trp Glu Val Cys Phe Gly Lys Lys Gly Glu Phe Gln Glu Val Val
                260                 265                 270
Arg Ala Phe Glu Leu Lys Gly His Ser Ala Ala Val His Ser Phe
                275                 280                 285
Ala Phe Ser Asn Asp Ser Arg Arg Met Ala Ser Val Ser Lys Asp
                290                 295                 300
Gly Thr Trp Lys Leu Trp Asp Thr Asp Val Glu Tyr Lys Lys Lys
                305                 310                 315
Gln Asp Pro Tyr Leu Leu Lys Thr Gly Arg Phe Glu Glu Ala Ala
                320                 325                 330
Gly Ala Ala Pro Cys Arg Leu Ala Leu Ser Pro Asn Ala Gln Val
                335                 340                 345
Leu Ala Leu Ala Ser Gly Ser Ser Ile His Leu Tyr Asn Thr Arg
                350                 355                 360
Arg Gly Glu Lys Glu Glu Cys Phe Glu Arg Val His Gly Glu Cys
                365                 370                 375
Ile Ala Asn Leu Ser Phe Asp Ile Thr Gly Arg Phe Leu Ala Ser
                380                 385                 390
Cys Gly Asp Arg Ala Val Arg Leu Phe His Asn Thr Pro Gly His
                395                 400                 405
Arg Ala Met Val Glu Glu Met Gln Gly His Leu Lys Arg Ala Ser
                410                 415                 420
Asn Glu Ser Thr Arg Gln Arg Leu Gln Gln Gln Leu Thr Gln Ala
                425                 430                 435
Gln Glu Thr Leu Lys Ser Leu Gly Ala Leu Lys Lys
                440                 445
```

<210> 11
<211> 199
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1508161CD1

<400> 11

```
Met Pro Val Lys Lys Lys His Arg Ala Arg Met Ile Glu Tyr Phe
  1               5                  10                  15
Ile Asp Val Ala Arg Glu Cys Phe Asn Ile Gly Asn Phe Asn Ser
                20                  25                  30
Leu Met Ala Ile Ile Ser Gly Met Asn Met Ser Pro Val Ser Arg
                35                  40                  45
Leu Lys Lys Thr Trp Ala Lys Val Lys Thr Ala Lys Phe Asp Ile
                50                  55                  60
```

```
Leu Glu His Gln Met Asp Pro Ser Ser Asn Phe Tyr Asn Tyr Arg
                65                  70                  75
Thr Ala Leu Arg Gly Ala Ala Gln Arg Ser Leu Thr Ala His Ser
                80                  85                  90
Ser Arg Glu Lys Ile Val Ile Pro Phe Phe Ser Leu Leu Ile Lys
                95                 100                 105
Asp Ile Tyr Phe Leu Asn Glu Gly Cys Ala Asn Arg Leu Pro Asn
               110                 115                 120
Gly His Val Asn Phe Glu Lys Phe Trp Glu Leu Ala Lys Gln Val
               125                 130                 135
Ser Glu Phe Met Thr Trp Lys Gln Val Glu Cys Pro Phe Glu Arg
               140                 145                 150
Asp Arg Lys Ile Leu Gln Tyr Leu Leu Thr Val Pro Val Phe Ser
               155                 160                 165
Glu Asp Ala Leu Tyr Leu Ala Ser Tyr Glu Ser Glu Gly Pro Glu
               170                 175                 180
Asn His Ile Glu Lys Asp Arg Trp Lys Ser Leu Arg Ser Ser Leu
               185                 190                 195
Leu Gly Arg Val
```


<210> 12
<211> 694
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1811877CD1

<400> 12

```
Met Ala Phe Asp Pro Thr Ser Thr Leu Leu Ala Thr Gly Gly Cys
  1               5                  10                  15
Asp Gly Ala Val Arg Val Trp Asp Ile Val Arg His Tyr Gly Thr
               20                  25                  30
His His Phe Arg Gly Ser Pro Gly Val Val His Leu Val Ala Phe
               35                  40                  45
His Pro Asp Pro Thr Arg Leu Leu Leu Phe Ser Ser Ala Thr Asp
               50                  55                  60
Ala Ala Ile Arg Val Trp Ser Leu Gln Asp Arg Ser Cys Leu Ala
               65                  70                  75
Val Leu Thr Ala His Tyr Ser Ala Val Thr Ser Leu Ala Phe Ser
               80                  85                  90
Ala Asp Gly His Thr Met Leu Ser Ser Gly Arg Asp Lys Ile Cys
               95                 100                 105
Ile Ile Trp Asp Leu Gln Ser Cys Gln Ala Thr Arg Thr Val Pro
              110                 115                 120
Val Phe Glu Ser Val Glu Ala Ala Val Leu Leu Pro Glu Glu Pro
              125                 130                 135
Val Ser Gln Leu Gly Val Lys Ser Pro Gly Leu Tyr Phe Leu Thr
              140                 145                 150
Ala Gly Asp Gln Gly Thr Leu Arg Val Trp Glu Ala Ala Ser Gly
              155                 160                 165
Gln Cys Val Tyr Thr Gln Ala Gln Pro Pro Gly Pro Gly Gln Glu
              170                 175                 180
```

```
Leu Thr His Cys Thr Leu Ala His Thr Ala Gly Val Val Leu Thr
                185                 190                 195
Ala Thr Ala Asp His Asn Leu Leu Leu Tyr Glu Ala Arg Ser Leu
            200                 205                 210
Arg Leu Gln Lys Gln Phe Ala Gly Tyr Ser Glu Glu Val Leu Asp
        215                 220                 225
Val Arg Phe Leu Gly Pro Glu Asp Ser His Val Val Val Ala Ser
    230                 235                 240
Asn Ser Pro Cys Leu Lys Val Phe Glu Leu Gln Thr Ser Ala Cys
245                 250                 255
Gln Ile Leu His Gly His Thr Asp Ile Val Leu Ala Leu Asp Val
            260                 265                 270
Phe Arg Lys Gly Trp Leu Phe Ala Ser Cys Ala Lys Asp Gln Ser
        275                 280                 285
Val Arg Ile Trp Arg Met Asn Lys Ala Gly Gln Val Met Cys Val
    290                 295                 300
Ala Gln Gly Ser Gly His Thr His Ser Val Gly Thr Val Cys Cys
305                 310                 315
Ser Arg Leu Lys Glu Ser Phe Leu Val Thr Gly Ser Gln Asp Cys
            320                 325                 330
Thr Val Lys Leu Trp Pro Leu Pro Lys Ala Leu Leu Ser Lys Asn
        335                 340                 345
Thr Ala Pro Asp Asn Gly Pro Ile Leu Leu Gln Ala Gln Thr Thr
    350                 355                 360
Gln Arg Cys His Asp Lys Asp Ile Asn Ser Val Ala Ile Ala Pro
365                 370                 375
Asn Asp Lys Leu Leu Ala Thr Gly Ser Gln Asp Arg Thr Ala Lys
            380                 385                 390
Leu Trp Ala Leu Pro Gln Cys Gln Leu Leu Gly Val Phe Ser Gly
        395                 400                 405
His Arg Arg Gly Leu Trp Cys Val Gln Phe Ser Pro Met Asp Gln
    410                 415                 420
Val Leu Ala Thr Ala Ser Ala Asp Gly Thr Ile Lys Leu Trp Ala
425                 430                 435
Leu Gln Asp Phe Ser Cys Leu Lys Thr Phe Glu Gly His Asp Ala
            440                 445                 450
Ser Val Leu Lys Val Ala Phe Val Ser Arg Gly Thr Gln Leu Leu
        455                 460                 465
Ser Ser Gly Ser Asp Gly Leu Val Lys Leu Trp Thr Ile Lys Asn
    470                 475                 480
Asn Glu Cys Val Arg Thr Leu Asp Ala His Glu Asp Lys Val Trp
485                 490                 495
Gly Leu His Cys Ser Arg Leu Asp Asp His Ala Leu Thr Gly Ala
            500                 505                 510
Ser Asp Ser Arg Val Ile Leu Trp Lys Asp Val Thr Glu Ala Glu
        515                 520                 525
Gln Ala Glu Glu Gln Ala Arg Gln Glu Glu Gln Val Val Arg Gln
    530                 535                 540
Gln Glu Leu Asp Asn Leu Leu His Glu Lys Arg Tyr Leu Arg Ala
545                 550                 555
Leu Gly Leu Ala Ile Ser Leu Asp Arg Pro His Thr Val Leu Thr
            560                 565                 570
Val Ile Gln Ala Ile Arg Arg Asp Pro Glu Ala Cys Glu Lys Leu
        575                 580                 585
Glu Ala Thr Met Leu Arg Leu Arg Arg Asp Gln Lys Glu Ala Leu
```

```
                590                 595                 600
Leu Arg Phe Cys Val Thr Trp Asn Thr Asn Ser Arg His Cys His
                605                 610                 615
Glu Ala Gln Ala Val Leu Gly Val Leu Leu Arg Arg Glu Ala Pro
                620                 625                 630
Glu Glu Leu Leu Ala Tyr Glu Gly Val Arg Ala Ala Leu Glu Ala
                635                 640                 645
Leu Leu Pro Tyr Thr Glu Arg His Phe Gln Arg Leu Ser Arg Thr
                650                 655                 660
Leu Gln Ala Ala Ala Phe Leu Asp Phe Leu Trp His Asn Met Lys
                665                 670                 675
Leu Pro Val Pro Ala Ala Ala Pro Thr Pro Trp Glu Thr His Lys
                680                 685                 690
Gly Ala Leu Pro
```

<210> 13
<211> 654
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1848674CD1

<400> 13

```
Met Glu Arg Ser Gly Pro Ser Glu Val Thr Gly Ser Asp Ala Ser
  1               5                  10                  15
Gly Pro Asp Pro Gln Leu Ala Val Thr Met Gly Phe Thr Gly Phe
                20                  25                  30
Gly Lys Lys Ala Arg Thr Phe Asp Leu Glu Ala Met Phe Glu Gln
                35                  40                  45
Thr Arg Arg Thr Ala Val Glu Arg Ser Arg Lys Thr Leu Glu Ala
                50                  55                  60
Arg Glu Lys Glu Glu Glu Met Asn Arg Glu Lys Glu Leu Arg Arg
                65                  70                  75
Gln Asn Glu Asp Ile Glu Pro Thr Ser Ser Arg Ser Asn Val Val
                80                  85                  90
Arg Asp Cys Ser Lys Ser Ser Ser Arg Asp Thr Ser Ser Ser Glu
                95                 100                 105
Ser Glu Gln Ser Ser Asp Ser Ser Asp Asp Glu Leu Ile Gly Pro
               110                 115                 120
Pro Leu Pro Pro Lys Met Val Gly Lys Pro Val Asn Phe Met Glu
               125                 130                 135
Glu Asp Ile Leu Gly Pro Leu Pro Pro Pro Leu Asn Glu Glu Glu
               140                 145                 150
Glu Glu Ala Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Asn
               155                 160                 165
Pro Val His Lys Ile Pro Asp Ser His Glu Ile Thr Leu Lys His
               170                 175                 180
Gly Thr Lys Thr Val Ser Ala Leu Gly Leu Asp Pro Ser Gly Ala
               185                 190                 195
Arg Leu Val Thr Gly Gly Tyr Asp Tyr Asp Val Lys Phe Trp Asp
               200                 205                 210
Phe Ala Gly Met Asp Ala Ser Phe Lys Ala Phe Arg Ser Leu Gln
```

```
                215                 220                 225
Pro Cys Glu Cys His Gln Ile Lys Ser Leu Gln Tyr Ser Asn Thr
                230                 235                 240
Gly Asp Met Ile Leu Val Val Ser Gly Ser Ser Gln Ala Lys Val
                245                 250                 255
Ile Asp Arg Asp Gly Phe Glu Val Met Glu Cys Ile Lys Gly Asp
                260                 265                 270
Gln Tyr Ile Val Asp Met Ala Asn Thr Lys Gly His Thr Ala Met
                275                 280                 285
Leu His Thr Gly Ser Trp His Pro Lys Ile Lys Gly Glu Phe Met
                290                 295                 300
Thr Cys Ser Asn Asp Ala Thr Val Arg Thr Trp Glu Val Glu Asn
                305                 310                 315
Pro Lys Lys Gln Lys Ser Val Phe Lys Pro Arg Thr Met Gln Gly
                320                 325                 330
Lys Lys Val Ile Pro Thr Thr Cys Thr Tyr Ser Arg Asp Gly Asn
                335                 340                 345
Leu Ile Ala Ala Ala Cys Gln Asn Gly Ser Ile Gln Ile Trp Asp
                350                 355                 360
Arg Asn Leu Thr Val His Pro Lys Phe His Tyr Lys Gln Ala His
                365                 370                 375
Asp Ser Gly Thr Asp Thr Ser Cys Val Thr Phe Ser Tyr Asp Gly
                380                 385                 390
Asn Val Leu Ala Ser Arg Gly Gly Asp Asp Ser Leu Lys Leu Trp
                395                 400                 405
Asp Ile Arg Gln Phe Asn Lys Pro Leu Phe Ser Ala Ser Gly Leu
                410                 415                 420
Pro Thr Met Phe Pro Met Thr Asp Cys Cys Phe Ser Pro Asp Asp
                425                 430                 435
Lys Leu Ile Val Thr Gly Thr Ser Ile Gln Arg Gly Cys Gly Ser
                440                 445                 450
Gly Lys Leu Val Phe Phe Glu Arg Arg Thr Phe Gln Arg Val Tyr
                455                 460                 465
Glu Ile Asp Ile Thr Asp Ala Ser Val Val Arg Cys Leu Trp His
                470                 475                 480
Pro Lys Leu Asn Gln Ile Met Val Gly Thr Gly Asn Gly Leu Ala
                485                 490                 495
Lys Val Tyr Tyr Asp Pro Asn Lys Ser Gln Arg Gly Ala Lys Leu
                500                 505                 510
Cys Val Val Lys Thr Gln Arg Lys Ala Lys Gln Ala Glu Thr Leu
                515                 520                 525
Thr Gln Asp Tyr Ile Ile Thr Pro His Ala Leu Pro Met Phe Arg
                530                 535                 540
Glu Pro Arg Gln Arg Ser Thr Arg Lys Gln Leu Glu Lys Asp Arg
                545                 550                 555
Leu Asp Pro Leu Lys Ser His Lys Pro Glu Pro Pro Val Ala Gly
                560                 565                 570
Pro Gly Arg Gly Gly Arg Val Gly Thr His Gly Gly Thr Leu Ser
                575                 580                 585
Ser Tyr Ile Val Lys Asn Ile Ala Leu Asp Lys Thr Asp Asp Ser
                590                 595                 600
Asn Pro Arg Glu Ala Ile Leu Arg His Ala Lys Ala Ala Glu Asp
                605                 610                 615
Ser Pro Tyr Trp Val Ser Pro Ala Tyr Ser Lys Thr Gln Pro Lys
                620                 625                 630
```

```
Thr Met Phe Ala Gln Val Glu Ser Asp Asp Glu Glu Ala Lys Asn
                635                 640                 645
Glu Pro Glu Trp Lys Lys Arg Lys Ile
                650
```

<210> 14
<211> 180
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2012970CD1

<400> 14

```
Met Glu Ala Asn Met Pro Lys Arg Lys Glu Pro Gly Arg Ser Leu
  1                 5                  10                  15
Arg Ile Lys Val Ile Ser Met Gly Asn Ala Glu Val Gly Lys Ser
                 20                  25                  30
Cys Ile Ile Lys Arg Tyr Cys Glu Lys Arg Phe Val Ser Lys Tyr
                 35                  40                  45
Leu Ala Thr Ile Gly Ile Asp Tyr Gly Val Thr Lys Val His Val
                 50                  55                  60
Arg Asp Arg Glu Ile Lys Val Asn Ile Phe Asp Met Ala Gly His
                 65                  70                  75
Pro Phe Phe Tyr Glu Val Arg Asn Glu Phe Tyr Lys Asp Thr Gln
                 80                  85                  90
Gly Val Ile Leu Val Tyr Asp Val Gly Gln Lys Asp Ser Phe Asp
                 95                 100                 105
Ala Leu Asp Ala Trp Leu Ala Glu Met Lys Gln Glu Leu Gly Pro
                110                 115                 120
His Gly Asn Met Glu Asn Ile Ile Phe Val Val Cys Ala Asn Lys
                125                 130                 135
Ile Asp Cys Thr Lys His Arg Cys Val Asp Glu Ser Glu Gly Arg
                140                 145                 150
Leu Trp Ala Glu Ser Lys Gly Phe Leu Tyr Phe Glu Thr Ser Ala
                155                 160                 165
Gln Thr Gly Glu Gly Ile Asn Glu Met Phe Gln Ile His Leu Gly
                170                 175                 180
```

<210> 15
<211> 374
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2254315CD1

<400> 15

```
Met Ala Ala Ser Ala Ala Ala Ala Glu Leu Gln Ala Ser Gly Gly
  1                 5                  10                  15
Pro Arg His Pro Val Cys Leu Leu Val Leu Gly Met Ala Gly Ser
```

```
                    20                  25                  30
Gly Lys Thr Thr Phe Val Gln Arg Leu Thr Gly His Leu His Ala
                    35                  40                  45
Gln Gly Thr Pro Pro Tyr Val Ile Asn Leu Asp Pro Ala Val His
                    50                  55                  60
Glu Val Pro Phe Pro Ala Asn Ile Asp Ile Arg Asp Thr Val Lys
                    65                  70                  75
Tyr Lys Glu Val Met Lys Gln Tyr Gly Leu Gly Pro Asn Gly Gly
                    80                  85                  90
Ile Val Thr Ser Leu Asn Leu Phe Ala Thr Arg Phe Asp Gln Val
                    95                  100                 105
Met Lys Phe Ile Glu Lys Ala Gln Asn Met Ser Lys Tyr Val Leu
                    110                 115                 120
Ile Asp Thr Pro Gly Gln Ile Glu Val Phe Thr Trp Ser Ala Ser
                    125                 130                 135
Gly Thr Ile Ile Thr Glu Ala Leu Ala Ser Ser Phe Pro Thr Val
                    140                 145                 150
Val Ile Tyr Val Met Asp Thr Ser Arg Ser Thr Asn Pro Val Thr
                    155                 160                 165
Phe Met Ser Asn Met Leu Tyr Ala Cys Ser Ile Leu Tyr Lys Thr
                    170                 175                 180
Lys Leu Pro Phe Ile Val Val Met Asn Lys Thr Asp Ile Ile Asp
                    185                 190                 195
His Ser Phe Ala Val Glu Trp Met Gln Asp Phe Glu Ala Phe Gln
                    200                 205                 210
Asp Ala Leu Asn Gln Glu Thr Thr Tyr Val Ser Asn Leu Thr Arg
                    215                 220                 225
Ser Met Ser Leu Val Leu Asp Glu Phe Tyr Ser Ser Leu Arg Val
                    230                 235                 240
Val Gly Val Ser Ala Val Leu Gly Thr Gly Leu Asp Glu Leu Phe
                    245                 250                 255
Val Gln Val Thr Ser Ala Ala Glu Glu Tyr Glu Arg Glu Tyr Arg
                    260                 265                 270
Pro Glu Tyr Glu Arg Leu Lys Lys Ser Leu Ala Asn Ala Glu Ser
                    275                 280                 285
Gln Gln Gln Arg Glu Gln Leu Glu Arg Leu Arg Lys Asp Met Gly
                    290                 295                 300
Ser Val Ala Leu Asp Ala Gly Thr Ala Lys Asp Ser Leu Ser Pro
                    305                 310                 315
Val Leu His Pro Ser Asp Leu Ile Leu Thr Arg Gly Thr Leu Asp
                    320                 325                 330
Glu Glu Asp Glu Glu Ala Asp Ser Asp Thr Asp Asp Ile Asp His
                    335                 340                 345
Arg Val Thr Glu Glu Ser His Glu Glu Pro Ala Phe Gln Asn Phe
                    350                 355                 360
Met Gln Glu Ser Met Ala Gln Tyr Trp Lys Arg Asn Asn Lys
                    365                 370
```

<210> 16
<211> 649
<212> PRT
<213> Homo sapiens

<220>

<221> misc_feature
<223> Incyte ID No. 2415545CD1

<400> 16

```
Met Glu Gly Ala Gly Tyr Arg Val Val Phe Glu Lys Gly Gly Val
  1               5                  10                  15
Tyr Leu His Thr Ser Ala Lys Lys Tyr Gln Asp Arg Asp Ser Leu
             20                  25                  30
Ile Ala Gly Val Ile Arg Val Val Glu Lys Asp Asn Asp Val Leu
             35                  40                  45
Leu His Trp Ala Pro Val Glu Glu Ala Gly Asp Ser Thr Gln Ile
             50                  55                  60
Leu Phe Ser Lys Lys Asp Ser Ser Gly Gly Asp Ser Cys Ala Ser
             65                  70                  75
Glu Glu Glu Pro Thr Phe Asp Pro Gly Tyr Glu Pro Asp Trp Ala
             80                  85                  90
Val Ile Ser Thr Val Arg Pro Gln Pro Cys His Ser Glu Pro Thr
             95                 100                 105
Arg Gly Ala Glu Pro Ser Cys Pro Gln Gly Ser Trp Ala Phe Ser
            110                 115                 120
Val Ser Leu Gly Glu Leu Lys Ser Ile Arg Arg Ser Lys Pro Gly
            125                 130                 135
Leu Ser Trp Ala Tyr Leu Val Leu Val Thr Gln Ala Gly Gly Ser
            140                 145                 150
Leu Pro Ala Leu His Phe His Arg Gly Gly Thr Arg Ala Leu Leu
            155                 160                 165
Arg Val Leu Ser Arg Tyr Leu Leu Leu Ala Ser Ser Pro Gln Asp
            170                 175                 180
Ser Arg Leu Tyr Leu Val Phe Pro His Asp Ser Ser Ala Leu Ser
            185                 190                 195
Asn Ser Phe His His Leu Gln Leu Phe Asp Gln Asp Ser Ser Asn
            200                 205                 210
Val Val Ser Arg Phe Leu Gln Asp Pro Tyr Ser Thr Thr Phe Ser
            215                 220                 225
Ser Phe Ser Arg Val Thr Asn Phe Phe Arg Gly Ala Leu Gln Pro
            230                 235                 240
Gln Pro Glu Gly Ala Ala Ser Asp Leu Pro Pro Pro Pro Asp Asp
            245                 250                 255
Glu Pro Glu Pro Gly Phe Glu Val Ile Ser Cys Val Glu Leu Gly
            260                 265                 270
Pro Arg Pro Thr Val Glu Arg Gly Pro Pro Val Thr Glu Glu Glu
            275                 280                 285
Trp Ala Arg His Val Gly Pro Glu Gly Arg Leu Gln Gln Val Pro
            290                 295                 300
Glu Leu Lys Asn Arg Ile Phe Ser Gly Gly Leu Ser Pro Ser Leu
            305                 310                 315
Arg Arg Glu Ala Trp Lys Phe Leu Leu Gly Tyr Leu Ser Trp Glu
            320                 325                 330
Gly Thr Ala Glu Glu His Lys Ala His Ile Arg Lys Lys Thr Asp
            335                 340                 345
Glu Tyr Phe Arg Met Lys Leu Gln Trp Lys Ser Val Ser Pro Glu
            350                 355                 360
Gln Glu Arg Arg Asn Ser Leu Leu His Gly Tyr Arg Ser Leu Ile
            365                 370                 375
Glu Arg Asp Val Ser Arg Thr Asp Arg Thr Asn Lys Phe Tyr Glu
```

```
                380                 385                 390
Gly Pro Glu Asn Pro Gly Leu Gly Leu Leu Asn Asp Ile Leu Leu
                395                 400                 405
Thr Tyr Cys Met Tyr His Phe Asp Leu Gly Tyr Val Gln Gly Met
                410                 415                 420
Ser Asp Leu Leu Ser Pro Ile Leu Tyr Val Ile Gln Asn Glu Val
                425                 430                 435
Asp Ala Phe Trp Cys Phe Cys Gly Phe Met Glu Leu Val Gln Gly
                440                 445                 450
Asn Phe Glu Glu Ser Gln Glu Thr Met Lys Arg Gln Leu Gly Arg
                455                 460                 465
Leu Leu Leu Leu Leu Arg Val Leu Asp Pro Leu Leu Cys Asp Phe
                470                 475                 480
Leu Asp Ser Gln Asp Ser Gly Ser Leu Cys Phe Cys Phe Arg Trp
                485                 490                 495
Leu Leu Ile Trp Phe Lys Arg Glu Phe Pro Phe Pro Asp Val Leu
                500                 505                 510
Arg Leu Trp Glu Val Leu Trp Thr Gly Leu Pro Gly Pro Asn Leu
                515                 520                 525
His Leu Leu Val Ala Cys Ala Ile Leu Asp Met Glu Arg Asp Thr
                530                 535                 540
Leu Met Leu Ser Gly Phe Gly Ser Asn Glu Ile Leu Lys His Ile
                545                 550                 555
Asn Glu Leu Thr Met Lys Leu Ser Val Glu Asp Val Leu Thr Arg
                560                 565                 570
Ala Glu Ala Leu His Arg Gln Leu Thr Ala Cys Thr Arg Ala Ala
                575                 580                 585
Pro Gln Arg Ala Gly Asp Pro Gly Ala Gly Pro Ala Thr Gln Ser
                590                 595                 600
Pro Thr Ala Pro Arg Pro Pro Pro Pro Arg Cys Leu Cys Thr Pro
                605                 610                 615
Thr Arg Ala Pro Pro Thr Pro Pro Pro Ser Thr Asp Thr Ala Pro
                620                 625                 630
Gln Pro Asp Ser Ser Leu Glu Ile Leu Pro Glu Glu Glu Asp Glu
                635                 640                 645
Gly Ala Asp Ser
```

<210> 17
<211> 698
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2707969CD1

<400> 17

```
Met Cys His Asp Asp Asp Asp Lys Asp Pro Val Leu Arg Val Phe
  1               5                  10                  15
Asp Ser Arg Val Asp Lys Ile Arg Leu Leu Asn Val Arg Thr Pro
                 20                  25                  30
Thr Leu Arg Thr Ser Met Tyr Gln Lys Cys Thr Thr Val Asp Glu
                 35                  40                  45
Ala Glu Lys Ala Ile Glu Leu Arg Leu Ala Lys Ile Asp His Thr
```

```
                    50                  55                  60
Ala Ile His Pro His Leu Leu Asp Met Lys Ile Gly Gln Gly Lys
                    65                  70                  75
Tyr Glu Pro Gly Phe Phe Pro Lys Leu Gln Ser Asp Val Leu Ser
                    80                  85                  90
Thr Gly Pro Ala Ser Asn Lys Trp Thr Lys Arg Asn Ala Pro Ala
                    95                 100                 105
Gln Trp Arg Arg Lys Asp Arg Gln Lys Gln His Thr Glu His Leu
                   110                 115                 120
Arg Leu Asp Asn Asp Gln Arg Glu Lys Tyr Ile Gln Glu Ala Arg
                   125                 130                 135
Thr Met Gly Ser Thr Ile Arg Gln Pro Lys Leu Ser Asn Leu Ser
                   140                 145                 150
Pro Ser Val Ile Ala Gln Thr Asn Trp Lys Phe Val Glu Gly Leu
                   155                 160                 165
Leu Lys Glu Cys Arg Asn Lys Thr Lys Arg Met Leu Val Glu Lys
                   170                 175                 180
Met Gly Arg Glu Ala Val Glu Leu Gly His Gly Glu Val Asn Ile
                   185                 190                 195
Thr Gly Val Glu Glu Asn Thr Leu Ile Ala Ser Leu Cys Asp Leu
                   200                 205                 210
Leu Glu Arg Ile Trp Ser His Gly Leu Gln Val Lys Gln Gly Lys
                   215                 220                 225
Ser Ala Leu Trp Ser His Leu Leu His Tyr Gln Asp Asn Arg Gln
                   230                 235                 240
Arg Lys Leu Thr Ser Gly Ser Leu Ser Thr Ser Gly Ile Leu Leu
                   245                 250                 255
Asp Ser Glu Arg Arg Lys Ser Asp Ala Ser Ser Leu Met Pro Pro
                   260                 265                 270
Leu Arg Ile Ser Leu Ile Gln Asp Met Arg His Ile Gln Asn Ile
                   275                 280                 285
Gly Glu Ile Lys Thr Asp Val Gly Lys Ala Arg Ala Trp Val Arg
                   290                 295                 300
Leu Ser Met Glu Lys Lys Leu Leu Ser Arg His Leu Lys Gln Leu
                   305                 310                 315
Leu Ser Asp His Glu Leu Thr Lys Lys Leu Tyr Lys Arg Tyr Ala
                   320                 325                 330
Phe Leu Arg Cys Asp Asp Glu Lys Glu Gln Phe Leu Tyr His Leu
                   335                 340                 345
Leu Ser Phe Asn Ala Val Asp Tyr Phe Cys Phe Thr Asn Val Phe
                   350                 355                 360
Thr Thr Ile Leu Ile Pro Tyr His Ile Leu Ile Val Pro Ser Lys
                   365                 370                 375
Lys Leu Gly Gly Ser Met Phe Thr Ala Asn Pro Trp Ile Cys Ile
                   380                 385                 390
Ser Gly Glu Leu Gly Glu Thr Gln Ile Met Gln Ile Pro Arg Asn
                   395                 400                 405
Val Leu Glu Met Thr Phe Glu Cys Gln Asn Leu Gly Lys Leu Thr
                   410                 415                 420
Thr Val Gln Ile Gly His Asp Asn Ser Gly Leu Tyr Ala Lys Trp
                   425                 430                 435
Leu Val Glu Tyr Val Met Val Arg Asn Glu Ile Thr Gly His Thr
                   440                 445                 450
Tyr Lys Phe Pro Cys Gly Arg Trp Leu Gly Lys Gly Met Asp Asp
                   455                 460                 465
```

```
Gly Ser Leu Glu Arg Ile Leu Val Gly Glu Leu Leu Thr Ser Gln
                470                 475                 480
Pro Glu Val Asp Glu Arg Pro Cys Arg Thr Pro Pro Leu Gln Gln
                485                 490                 495
Ser Pro Ser Val Ile Arg Arg Leu Val Thr Ile Ser Pro Asn Asn
                500                 505                 510
Lys Pro Lys Leu Asn Thr Gly Gln Ile Gln Glu Ser Ile Gly Glu
                515                 520                 525
Ala Val Asn Gly Ile Val Lys His Phe His Lys Pro Glu Lys Glu
                530                 535                 540
Arg Gly Ser Leu Thr Leu Leu Leu Cys Gly Glu Cys Gly Leu Val
                545                 550                 555
Ser Ala Leu Glu Gln Ala Phe Gln His Gly Phe Lys Ser Pro Arg
                560                 565                 570
Leu Phe Lys Asn Val Phe Ile Trp Asp Phe Leu Glu Lys Ala Gln
                575                 580                 585
Thr Tyr Tyr Glu Thr Leu Glu Lys Asn Glu Val Val Pro Glu Glu
                590                 595                 600
Asn Trp His Thr Arg Ala Arg Asn Phe Cys Arg Phe Val Thr Ala
                605                 610                 615
Ile Asn Asn Thr Pro Arg Asn Ile Gly Lys Asp Gly Lys Phe Gln
                620                 625                 630
Met Leu Val Cys Leu Gly Ala Arg Asp His Leu Leu His His Trp
                635                 640                 645
Ile Ala Leu Leu Ala Asp Cys Pro Ile Thr Ala His Met Tyr Glu
                650                 655                 660
Asp Val Ala Leu Ile Lys Asp His Thr Leu Val Asn Ser Leu Ile
                665                 670                 675
Arg Val Leu Gln Thr Leu Gln Glu Phe Asn Ile Thr Leu Glu Thr
                680                 685                 690
Ser Leu Val Lys Gly Ile Asp Ile
                695

<210> 18
<211> 396
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No:  2817769CD1

<400> 18
Met Pro Pro Lys Lys Gly Gly Asp Gly Ile Lys Pro Pro Pro Ile
  1                 5                  10                  15
Ile Gly Arg Phe Gly Thr Ser Leu Lys Ile Gly Ile Val Gly Leu
                 20                  25                  30
Pro Asn Val Gly Lys Ser Thr Phe Phe Asn Val Leu Thr Asn Ser
                 35                  40                  45
Gln Ala Ser Ala Glu Asn Phe Pro Phe Cys Thr Ile Asp Pro Asn
                 50                  55                  60
Glu Ser Arg Val Pro Val Pro Asp Glu Arg Phe Asp Phe Leu Cys
                 65                  70                  75
Gln Tyr His Lys Pro Ala Ser Lys Ile Pro Ala Phe Leu Asn Val
                 80                  85                  90
```

```
Val Asp Ile Ala Gly Leu Val Lys Gly Ala His Asn Gly Gln Gly
                 95                  100                 105
Leu Gly Asn Ala Phe Leu Ser His Ile Ser Ala Cys Asp Gly Ile
                110                 115                 120
Phe His Leu Thr Arg Ala Phe Glu Asp Asp Asp Ile Thr His Val
                125                 130                 135
Glu Gly Ser Val Asp Pro Ile Arg Asp Ile Glu Ile Ile His Glu
                140                 145                 150
Glu Leu Gln Leu Lys Asp Glu Glu Met Ile Gly Pro Ile Ile Asp
                155                 160                 165
Lys Leu Glu Lys Val Ala Val Arg Gly Gly Asp Lys Lys Leu Lys
                170                 175                 180
Pro Glu Tyr Asp Ile Met Cys Lys Val Lys Ser Trp Val Ile Asp
                185                 190                 195
Gln Lys Lys Pro Val Arg Phe Tyr His Asp Trp Asn Asp Lys Glu
                200                 205                 210
Ile Glu Val Leu Asn Lys His Leu Phe Leu Thr Ser Lys Pro Met
                215                 220                 225
Val Tyr Leu Val Asn Leu Ser Glu Lys Asp Tyr Ile Arg Lys Lys
                230                 235                 240
Asn Lys Trp Leu Ile Lys Ile Lys Glu Trp Val Asp Lys Tyr Asp
                245                 250                 255
Pro Gly Ala Leu Val Ile Pro Phe Ser Gly Ala Leu Glu Leu Lys
                260                 265                 270
Leu Gln Glu Leu Ser Ala Glu Glu Arg Gln Lys Tyr Leu Glu Ala
                275                 280                 285
Asn Met Thr Gln Ser Ala Leu Pro Lys Ile Ile Lys Ala Gly Phe
                290                 295                 300
Ala Ala Leu Gln Leu Glu Tyr Phe Phe Thr Ala Gly Pro Asp Glu
                305                 310                 315
Val Arg Ala Trp Thr Ile Arg Lys Gly Thr Lys Ala Pro Gln Ala
                320                 325                 330
Ala Gly Lys Ile His Thr Asp Phe Glu Lys Gly Phe Ile Met Ala
                335                 340                 345
Glu Val Met Lys Tyr Glu Asp Phe Lys Glu Glu Gly Ser Glu Asn
                350                 355                 360
Ala Val Lys Ala Ala Gly Lys Tyr Arg Gln Gln Gly Arg Asn Tyr
                365                 370                 375
Ile Val Glu Asp Gly Asp Ile Ile Phe Phe Lys Phe Asn Thr Pro
                380                 385                 390
Gln Gln Pro Lys Lys Lys
                395
```

<210> 19
<211> 634
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2917557CD1

<400> 19
Met Ser Ser Asp Ser Glu Tyr Asp Ser Asp Asp Asp Arg Thr Lys

```
  1               5                  10                  15
Glu Glu Arg Ala Tyr Asp Lys Ala Lys Arg Arg Ile Glu Lys Arg
             20                  25                  30
Arg Leu Glu His Ser Lys Asn Val Asn Thr Glu Lys Leu Arg Ala
         35                  40                  45
Pro Ile Ile Cys Val Leu Gly His Val Asp Thr Gly Lys Thr Lys
     50                  55                  60
Ile Leu Asp Lys Leu Arg His Thr His Val Gln Asp Gly Glu Ala
 65                  70                  75
Gly Gly Ile Thr Gln Gln Ile Gly Ala Thr Asn Val Pro Leu Glu
             80                  85                  90
Ala Ile Asn Glu Gln Thr Lys Met Ile Lys Asn Phe Asp Arg Glu
         95                 100                 105
Asn Val Arg Ile Pro Gly Met Leu Ile Ile Asp Thr Pro Gly His
    110                 115                 120
Glu Ser Phe Ser Asn Leu Arg Asn Arg Gly Ser Ser Leu Cys Asp
    125                 130                 135
Ile Ala Ile Leu Val Val Asp Ile Met His Gly Leu Glu Pro Gln
    140                 145                 150
Thr Ile Glu Ser Ile Asn Leu Leu Lys Ser Lys Lys Cys Pro Phe
    155                 160                 165
Ile Val Ala Leu Asn Lys Ile Asp Arg Leu Tyr Asp Trp Lys Lys
    170                 175                 180
Ser Pro Asp Ser Asp Val Ala Ala Thr Leu Lys Lys Gln Lys Lys
    185                 190                 195
Asn Thr Lys Asp Glu Phe Glu Glu Arg Ala Lys Ala Ile Ile Val
    200                 205                 210
Glu Phe Ala Gln Gln Gly Leu Asn Ala Ala Leu Phe Tyr Glu Asn
    215                 220                 225
Lys Asp Pro Arg Thr Phe Val Ser Leu Val Pro Thr Ser Ala His
    230                 235                 240
Thr Gly Asp Gly Met Gly Ser Leu Ile Tyr Leu Leu Val Glu Leu
    245                 250                 255
Thr Gln Thr Met Leu Ser Lys Arg Leu Ala His Cys Glu Glu Leu
    260                 265                 270
Arg Ala Gln Val Met Glu Val Lys Ala Leu Pro Gly Met Gly Thr
    275                 280                 285
Thr Ile Asp Val Ile Leu Ile Asn Gly Arg Leu Lys Glu Gly Asp
    290                 295                 300
Thr Ile Ile Val Pro Gly Val Glu Gly Pro Ile Val Thr Gln Ile
    305                 310                 315
Arg Gly Leu Leu Leu Pro Pro Pro Met Lys Glu Leu Arg Val Lys
    320                 325                 330
Asn Gln Tyr Glu Lys His Lys Glu Val Glu Ala Ala Gln Gly Val
    335                 340                 345
Lys Ile Leu Gly Lys Asp Leu Glu Lys Thr Leu Ala Gly Leu Pro
    350                 355                 360
Leu Leu Val Ala Tyr Lys Glu Asp Glu Ile Pro Val Leu Lys Asp
    365                 370                 375
Glu Leu Ile His Glu Leu Lys Gln Thr Leu Asn Ala Ile Lys Leu
    380                 385                 390
Glu Glu Lys Gly Val Tyr Val Gln Ala Ser Thr Leu Gly Ser Leu
    395                 400                 405
Glu Ala Leu Leu Glu Phe Leu Lys Thr Ser Glu Val Pro Tyr Ala
    410                 415                 420
```

```
Gly Ile Asn Ile Gly Pro Val His Lys Lys Asp Val Met Lys Ala
                425                 430                 435
Ser Val Met Leu Glu His Asp Pro Gln Tyr Ala Val Ile Leu Ala
                440                 445                 450
Phe Asp Val Arg Ile Glu Arg Asp Ala Gln Glu Met Ala Asp Ser
                455                 460                 465
Leu Gly Val Arg Ile Phe Ser Ala Glu Ile Ile Tyr His Leu Phe
                470                 475                 480
Asp Ala Phe Thr Lys Tyr Arg Gln Asp Tyr Lys Lys Gln Lys Gln
                485                 490                 495
Glu Glu Phe Lys His Ile Ala Val Phe Pro Cys Lys Ile Lys Ile
                500                 505                 510
Leu Pro Gln Tyr Ile Phe Asn Ser Arg Asp Pro Ile Val Met Gly
                515                 520                 525
Val Thr Val Glu Ala Gly Gln Val Lys Gln Gly Thr Pro Met Cys
                530                 535                 540
Val Pro Ser Lys Asn Phe Val Asp Ile Gly Ile Val Thr Ser Ile
                545                 550                 555
Glu Ile Asn His Lys Gln Val Asp Val Ala Lys Lys Gly Gln Glu
                560                 565                 570
Val Cys Val Lys Ile Glu Pro Ile Pro Gly Glu Ser Pro Lys Met
                575                 580                 585
Phe Gly Arg His Phe Glu Ala Thr Asp Ile Leu Val Ser Lys Ile
                590                 595                 600
Ser Arg Gln Ser Ile Asp Ala Leu Lys Asp Trp Phe Arg Asp Glu
                605                 610                 615
Met Gln Lys Ser Asp Trp Gln Leu Ile Val Glu Leu Lys Lys Val
                620                 625                 630
Phe Glu Ile Ile


<210> 20
<211> 196
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No:  3421335CD1

<400> 20
Met Gly Ser Val Asn Ser Arg Gly His Lys Ala Glu Ala Gln Val
  1                 5                  10                  15
Val Met Met Gly Leu Asp Ser Ala Gly Lys Thr Thr Leu Leu Tyr
                 20                  25                  30
Lys Leu Lys Gly His Gln Leu Val Glu Thr Leu Pro Thr Val Gly
                 35                  40                  45
Phe Asn Val Glu Pro Leu Lys Ala Pro Gly His Val Ser Leu Thr
                 50                  55                  60
Leu Trp Asp Val Gly Gly Gln Ala Pro Leu Arg Ala Ser Trp Lys
                 65                  70                  75
Asp Tyr Leu Glu Gly Thr Asp Ile Leu Val Tyr Val Leu Asp Ser
                 80                  85                  90
Thr Asp Glu Ala Arg Leu Pro Glu Ser Ala Ala Glu Leu Thr Glu
                 95                 100                 105
```

```
Val Leu Asn Asp Pro Asn Met Ala Gly Val Pro Phe Leu Val Leu
                110                 115                 120
Ala Asn Lys Gln Glu Ala Pro Asp Ala Leu Pro Leu Leu Lys Ile
                125                 130                 135
Arg Asn Arg Leu Ser Leu Glu Arg Phe Gln Asp His Cys Trp Glu
                140                 145                 150
Leu Arg Gly Cys Ser Ala Leu Thr Gly Glu Gly Leu Pro Glu Ala
                155                 160                 165
Leu Gln Ser Leu Trp Ser Leu Leu Lys Ser Arg Ser Cys Met Cys
                170                 175                 180
Leu Gln Ala Arg Ala His Gly Ala Glu Arg Gly Asp Ser Lys Arg
                185                 190                 195
Ser
```

<210> 21
<211> 446
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 605761CD1

```
<400> 21
Met Ala Ala Arg Lys Gly Arg Arg Arg Thr Cys Glu Thr Gly Glu
  1               5                  10                  15
Pro Met Glu Ala Glu Ser Gly Asp Thr Ser Ser Glu Gly Pro Ala
                20                  25                  30
Gln Val Tyr Leu Pro Gly Arg Gly Pro Pro Leu Arg Glu Gly Glu
                35                  40                  45
Glu Leu Val Met Asp Glu Glu Ala Tyr Val Leu Tyr His Arg Ala
                50                  55                  60
Gln Thr Gly Ala Pro Cys Leu Ser Phe Asp Ile Val Arg Asp His
                65                  70                  75
Leu Gly Asp Asn Arg Thr Glu Leu Pro Leu Thr Leu Tyr Leu Cys
                80                  85                  90
Ala Gly Thr Gln Ala Glu Ser Ala Gln Ser Asn Arg Leu Met Met
                95                 100                 105
Leu Arg Met His Asn Leu His Gly Thr Lys Pro Pro Pro Ser Glu
                110                 115                 120
Gly Ser Asp Glu Glu Glu Glu Glu Glu Asp Glu Glu Asp Glu Glu
                125                 130                 135
Glu Arg Lys Pro Gln Leu Glu Leu Ala Met Val Pro His Tyr Gly
                140                 145                 150
Gly Ile Asn Arg Val Arg Val Ser Trp Leu Gly Glu Glu Pro Val
                155                 160                 165
Ala Gly Val Trp Ser Glu Lys Gly Gln Val Glu Val Phe Ala Leu
                170                 175                 180
Arg Arg Leu Leu Gln Val Val Glu Glu Pro Gln Ala Leu Ala Ala
                185                 190                 195
Phe Leu Arg Asp Glu Gln Ala Gln Met Lys Pro Ile Phe Ser Phe
                200                 205                 210
Ala Gly His Met Gly Glu Gly Phe Ala Leu Asp Trp Ser Pro Arg
                215                 220                 225
```

```
Val Thr Gly Arg Leu Leu Thr Gly Asp Cys Gln Lys Asn Ile His
                230                 235                 240
Leu Trp Thr Pro Thr Asp Gly Gly Ser Trp His Val Asp Gln Arg
                245                 250                 255
Pro Phe Val Gly His Thr Arg Ser Val Glu Asp Leu Gln Trp Ser
                260                 265                 270
Pro Thr Glu Asn Thr Val Phe Ala Ser Cys Ser Ala Asp Ala Ser
                275                 280                 285
Ile Arg Ile Trp Asp Ile Arg Ala Ala Pro Ser Lys Ala Cys Met
                290                 295                 300
Leu Thr Thr Ala Thr Ala His Asp Gly Asp Val Asn Val Ile Ser
                305                 310                 315
Trp Ser Arg Arg Glu Pro Phe Leu Leu Ser Gly Gly Asp Asp Gly
                320                 325                 330
Ala Leu Lys Ile Trp Asp Leu Arg Gln Phe Lys Ser Gly Ser Pro
                335                 340                 345
Val Ala Thr Phe Lys Gln His Val Ala Pro Val Thr Ser Val Glu
                350                 355                 360
Trp His Pro Gln Asp Ser Gly Val Phe Ala Ala Ser Gly Ala Asp
                365                 370                 375
His Gln Ile Thr Gln Trp Asp Leu Ala Val Glu Arg Asp Pro Glu
                380                 385                 390
Ala Gly Asp Val Glu Ala Asp Pro Gly Leu Ala Asp Leu Pro Gln
                395                 400                 405
Gln Leu Leu Phe Val His Gln Gly Glu Thr Glu Leu Lys Glu Leu
                410                 415                 420
His Trp His Pro Gln Cys Pro Gly Leu Leu Val Ser Thr Ala Leu
                425                 430                 435
Ser Gly Phe Thr Ile Phe Arg Thr Ile Ser Val
                440                 445
```


<210> 22
<211> 265
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 483862CD1

<400> 22

```
Met Ser Ser Gly Leu Arg Ala Ala Asp Phe Pro Arg Trp Lys Arg
  1               5                  10                  15
His Ile Ser Glu Gln Leu Arg Arg Arg Asp Arg Leu Gln Arg Gln
                20                  25                  30
Ala Phe Glu Glu Ile Ile Leu Gln Tyr Asn Lys Leu Leu Glu Lys
                35                  40                  45
Ser Asp Leu His Ser Val Leu Ala Gln Lys Leu Gln Ala Glu Lys
                50                  55                  60
His Asp Val Pro Asn Arg His Glu Ile Ser Pro Gly His Asp Gly
                65                  70                  75
Thr Trp Asn Asp Asn Gln Leu Gln Glu Met Ala Gln Leu Arg Ile
                80                  85                  90
Lys His Gln Glu Glu Leu Thr Glu Leu His Lys Lys Arg Gly Glu
```

```
                95                  100                 105
Leu Ala Gln Leu Val Ile Asp Leu Asn Asn Gln Met Gln Arg Lys
                110                 115                 120
Asp Arg Glu Met Gln Met Asn Glu Ala Lys Ile Ala Glu Cys Leu
                125                 130                 135
Gln Thr Ile Ser Asp Leu Glu Thr Glu Cys Leu Asp Leu Arg Thr
                140                 145                 150
Lys Leu Cys Asp Leu Glu Arg Ala Asn Gln Thr Leu Lys Asp Glu
                155                 160                 165
Tyr Asp Ala Leu Gln Ile Thr Phe Thr Ala Leu Glu Gly Lys Leu
                170                 175                 180
Arg Lys Thr Thr Glu Glu Asn Gln Glu Leu Val Thr Arg Trp Met
                185                 190                 195
Ala Glu Lys Ala Gln Glu Ala Asn Arg Leu Asn Ala Glu Asn Glu
                200                 205                 210
Lys Asp Ser Arg Arg Arg Gln Ala Arg Leu Gln Lys Glu Leu Ala
                215                 220                 225
Glu Ala Ala Lys Glu Pro Leu Pro Val Glu Gln Asp Asp Asp Ile
                230                 235                 240
Glu Val Ile Val Asp Glu Thr Ser Asp His Thr Glu Glu Thr Ser
                245                 250                 255
Pro Val Arg Ala Ile Ser Arg Ala Ala Thr
                260                 265
```

<210> 23
<211> 185
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1256777CD1

<400> 23

```
Met Leu Lys Ala Lys Ile Leu Phe Val Gly Pro Cys Glu Ser Gly
  1                 5                  10                  15
Lys Thr Val Leu Ala Asn Phe Leu Thr Glu Ser Ser Asp Ile Thr
                20                  25                  30
Glu Tyr Ser Pro Thr Gln Gly Val Arg Ile Leu Glu Phe Glu Asn
                35                  40                  45
Pro His Val Thr Ser Asn Asn Lys Gly Thr Gly Cys Glu Phe Glu
                50                  55                  60
Leu Trp Asp Cys Gly Gly Asp Ala Lys Phe Glu Ser Cys Trp Pro
                65                  70                  75
Ala Leu Met Lys Asp Ala His Gly Val Val Ile Val Phe Asn Ala
                80                  85                  90
Asp Ile Pro Ser His Arg Lys Glu Met Glu Met Trp Tyr Ser Cys
                95                  100                 105
Phe Val Gln Gln Pro Ser Leu Gln Asp Thr Gln Cys Met Leu Ile
                110                 115                 120
Ala His His Lys Pro Gly Ser Gly Asp Asp Lys Gly Ser Leu Ser
                125                 130                 135
Leu Ser Pro Pro Leu Asn Lys Leu Lys Leu Val His Ser Asn Leu
                140                 145                 150
```

```
Glu Asp Asp Pro Glu Glu Ile Arg Met Glu Phe Ile Lys Tyr Leu
                155                 160                 165
Lys Ser Ile Ile Asn Ser Met Ser Glu Ser Arg Asp Arg Glu Glu
                170                 175                 180
Met Ser Ile Met Thr
                185
```

<210> 24
<211> 554
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2198779CD1

<400> 24

```
Met Gly Ser Arg Asn Ser Ser Ser Ala Gly Ser Gly Ser Gly Asp
  1               5                  10                  15
Pro Ser Glu Gly Leu Pro Arg Arg Gly Ala Gly Leu Arg Arg Ser
                20                  25                  30
Glu Glu Glu Glu Glu Glu Asp Glu Asp Val Asp Leu Ala Gln Val
                35                  40                  45
Leu Ala Tyr Leu Leu Arg Arg Gly Gln Val Arg Leu Val Gln Gly
                50                  55                  60
Gly Gly Ala Ala Asn Leu Gln Phe Ile Gln Ala Leu Leu Asp Ser
                65                  70                  75
Glu Glu Glu Asn Asp Arg Ala Trp Asp Gly Arg Leu Gly Asp Arg
                80                  85                  90
Tyr Asn Pro Pro Val Asp Ala Thr Pro Asp Thr Arg Glu Leu Glu
                95                 100                 105
Phe Asn Glu Ile Lys Thr Gln Val Glu Leu Ala Thr Gly Gln Leu
               110                 115                 120
Gly Leu Arg Arg Ala Ala Gln Lys His Ser Phe Pro Arg Met Leu
               125                 130                 135
His Gln Arg Glu Arg Gly Leu Cys His Arg Gly Ser Phe Ser Leu
               140                 145                 150
Gly Glu Gln Ser Arg Val Ile Ser His Phe Leu Pro Asn Asp Leu
               155                 160                 165
Gly Phe Thr Asp Ser Tyr Ser Gln Lys Ala Phe Cys Gly Ile Tyr
               170                 175                 180
Ser Lys Asp Gly Gln Ile Phe Met Ser Ala Cys Gln Asp Gln Thr
               185                 190                 195
Ile Arg Leu Tyr Asp Cys Arg Tyr Gly Arg Phe Arg Lys Phe Lys
               200                 205                 210
Ser Ile Lys Ala Arg Asp Val Gly Trp Ser Val Leu Asp Val Ala
               215                 220                 225
Phe Thr Pro Asp Gly Asn His Phe Leu Tyr Ser Ser Trp Ser Asp
               230                 235                 240
Tyr Ile His Ile Cys Asn Ile Tyr Gly Glu Gly Asp Thr His Thr
               245                 250                 255
Ala Leu Asp Leu Arg Pro Asp Glu Arg Arg Phe Ala Val Phe Ser
               260                 265                 270
Ile Ala Val Ser Ser Asp Gly Arg Glu Val Leu Gly Gly Ala Asn
               275                 280                 285
```

```
Asp Gly Cys Leu Tyr Val Phe Asp Arg Glu Gln Asn Arg Arg Thr
                290                 295                 300
Leu Gln Ile Glu Ser His Glu Asp Asp Val Asn Ala Val Ala Phe
                305                 310                 315
Ala Asp Ile Ser Ser Gln Ile Leu Phe Ser Gly Gly Asp Asp Ala
                320                 325                 330
Ile Cys Lys Val Trp Asp Arg Arg Thr Met Arg Glu Asp Asp Pro
                335                 340                 345
Lys Pro Val Gly Ala Leu Ala Gly His Gln Asp Gly Ile Thr Phe
                350                 355                 360
Ile Asp Ser Lys Gly Asp Ala Arg Tyr Leu Ile Ser Asn Ser Lys
                365                 370                 375
Asp Gln Thr Ile Lys Leu Trp Asp Ile Arg Arg Phe Ser Ser Arg
                380                 385                 390
Glu Gly Met Glu Ala Ser Arg Gln Ala Ala Thr Gln Gln Asn Trp
                395                 400                 405
Asp Tyr Arg Trp Gln Gln Val Pro Lys Lys Gly Phe Thr Leu His
                410                 415                 420
Pro Tyr Pro Ala Trp Arg Lys Leu Lys Leu Pro Gly Asp Ser Ser
                425                 430                 435
Leu Met Thr Tyr Arg Gly His Gly Val Leu His Thr Leu Ile Arg
                440                 445                 450
Cys Arg Phe Ser Pro Ile His Ser Thr Gly Gln Gln Phe Ile Tyr
                455                 460                 465
Ser Gly Cys Ser Thr Gly Lys Val Val Val Tyr Asp Leu Leu Ser
                470                 475                 480
Gly His Ile Val Lys Lys Leu Thr Asn His Lys Ala Cys Val Arg
                485                 490                 495
Asp Val Ser Trp His Pro Phe Glu Glu Lys Ile Val Ser Ser Ser
                500                 505                 510
Trp Asp Gly Asn Leu Arg Leu Trp Gln Tyr Arg Gln Ala Glu Tyr
                515                 520                 525
Phe Gln Asp Asp Met Pro Glu Ser Glu Glu Cys Ala Ser Ala Pro
                530                 535                 540
Ala Pro Val Pro Gln Ser Ser Thr Pro Phe Ser Ser Pro Gln
                545                 550
```

<210> 25
<211> 434
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2226116CD1

<400> 25

```
Met Arg Pro Ser Ser Ser Val Ser Val Ser Cys Pro Ala Leu Asn
  1               5                  10                  15
Gln Val Ser His Phe Ala Asn Leu Thr Ser Val Gly Ala Met Ala
                20                  25                  30
Pro Ala Arg Cys Phe Ser Ala Arg Leu Arg Thr Val Phe Gln Gly
                35                  40                  45
Val Gly His Trp Ala Leu Ser Thr Trp Ala Gly Leu Lys Pro Ser
```

```
                    50                  55                  60
Arg Leu Leu Pro Gln Arg Ala Ser Pro Arg Leu Leu Ser Val Gly
                    65                  70                  75
Arg Ala Asp Leu Ala Lys His Gln Glu Leu Pro Gly Lys Lys Leu
                    80                  85                  90
Leu Ser Glu Lys Lys Leu Lys Arg Tyr Phe Val Asp Tyr Arg Arg
                    95                 100                 105
Val Leu Val Cys Gly Gly Asn Gly Gly Ala Gly Ala Ser Cys Phe
                   110                 115                 120
His Ser Glu Pro Arg Lys Glu Phe Gly Gly Pro Asp Gly Gly Asp
                   125                 130                 135
Gly Gly Asn Gly Gly His Val Ile Leu Arg Val Asp Gln Gln Val
                   140                 145                 150
Lys Ser Leu Ser Ser Val Leu Ser Arg Tyr Gln Gly Phe Ser Gly
                   155                 160                 165
Glu Asp Gly Gly Ser Lys Asn Cys Phe Gly Arg Ser Gly Ala Val
                   170                 175                 180
Leu Tyr Ile Arg Val Pro Val Gly Thr Leu Val Lys Glu Gly Gly
                   185                 190                 195
Arg Val Val Ala Asp Leu Ser Cys Val Gly Asp Glu Tyr Ile Ala
                   200                 205                 210
Ala Leu Gly Gly Ala Gly Gly Lys Gly Asn Arg Phe Phe Leu Ala
                   215                 220                 225
Asn Asn Asn Arg Ala Pro Val Thr Cys Thr Pro Gly Gln Pro Gly
                   230                 235                 240
Gln Gln Arg Val Leu His Leu Glu Leu Lys Thr Val Ala His Ala
                   245                 250                 255
Gly Met Val Gly Phe Pro Asn Ala Gly Lys Ser Ser Leu Leu Arg
                   260                 265                 270
Ala Ile Ser Asn Ala Arg Pro Ala Val Ala Ser Tyr Pro Phe Thr
                   275                 280                 285
Thr Leu Lys Pro His Val Gly Ile Val His Tyr Glu Gly His Leu
                   290                 295                 300
Gln Ile Ala Val Ala Asp Ile Pro Gly Ile Ile Arg Gly Ala His
                   305                 310                 315
Gln Asn Arg Gly Leu Gly Ser Ala Phe Leu Arg His Ile Glu Arg
                   320                 325                 330
Cys Arg Phe Leu Leu Phe Val Val Asp Leu Ser Gln Pro Glu Pro
                   335                 340                 345
Trp Thr Gln Val Asp Asp Leu Lys Tyr Glu Leu Glu Met Tyr Glu
                   350                 355                 360
Lys Gly Leu Ser Ala Arg Pro His Ala Ile Val Ala Asn Lys Ile
                   365                 370                 375
Asp Leu Pro Glu Ala Gln Ala Asn Leu Ser Gln Leu Arg Asp His
                   380                 385                 390
Leu Gly Gln Glu Val Ile Val Leu Ser Ala Leu Thr Gly Glu Asn
                   395                 400                 405
Leu Glu Gln Leu Leu Leu His Leu Lys Val Leu Tyr Asp Ala Tyr
                   410                 415                 420
Ala Glu Ala Glu Leu Gly Gln Gly Arg Gln Pro Leu Arg Trp
                   425                 430
```

<210> 26
<211> 826

<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2504472CD1

<400> 26

```
Met Val Ala Pro Val Leu Glu Thr Ser His Val Phe Cys Cys Pro
  1               5                  10                  15
Asn Arg Val Arg Gly Val Leu Asn Trp Ser Ser Gly Pro Arg Gly
             20                  25                  30
Leu Leu Ala Phe Gly Thr Ser Cys Ser Val Val Leu Tyr Asp Pro
             35                  40                  45
Leu Lys Arg Val Val Val Thr Asn Leu Asn Gly His Thr Ala Arg
             50                  55                  60
Val Asn Cys Ile Gln Trp Ile Cys Lys Gln Asp Gly Ser Pro Ser
             65                  70                  75
Thr Glu Leu Val Ser Gly Gly Ser Asp Asn Gln Val Ile His Trp
             80                  85                  90
Glu Ile Glu Asp Asn Gln Leu Leu Lys Ala Val His Leu Gln Gly
             95                 100                 105
His Glu Gly Pro Val Tyr Ala Val His Ala Val Tyr Gln Arg Arg
            110                 115                 120
Thr Ser Asp Pro Ala Leu Cys Thr Leu Ile Val Ser Ala Ala Ala
            125                 130                 135
Asp Ser Ala Val Arg Leu Trp Ser Lys Lys Gly Pro Glu Val Met
            140                 145                 150
Cys Leu Gln Thr Leu Asn Phe Gly Asn Gly Phe Ala Leu Ala Leu
            155                 160                 165
Cys Leu Ser Phe Leu Pro Asn Thr Asp Val Pro Ile Leu Ala Cys
            170                 175                 180
Gly Asn Asp Asp Cys Arg Ile His Ile Phe Ala Gln Gln Asn Asp
            185                 190                 195
Gln Phe Gln Lys Val Leu Ser Leu Cys Gly His Glu Asp Trp Ile
            200                 205                 210
Arg Gly Val Glu Trp Ala Ala Phe Gly Arg Asp Leu Phe Leu Ala
            215                 220                 225
Ser Cys Ser Gln Asp Cys Leu Ile Arg Ile Trp Lys Leu Tyr Ile
            230                 235                 240
Lys Ser Thr Ser Leu Glu Thr Gln Asp Asp Asp Asn Ile Arg Leu
            245                 250                 255
Lys Glu Asn Thr Phe Thr Ile Glu Asn Glu Ser Val Lys Ile Ala
            260                 265                 270
Phe Ala Val Thr Leu Glu Thr Val Leu Ala Gly His Glu Asn Trp
            275                 280                 285
Val Asn Ala Val His Trp Gln Pro Val Phe Tyr Lys Asp Gly Val
            290                 295                 300
Leu Gln Gln Pro Val Arg Leu Leu Ser Ala Ser Met Asp Lys Thr
            305                 310                 315
Met Ile Leu Trp Ala Pro Asp Glu Glu Ser Gly Val Trp Leu Glu
            320                 325                 330
Gln Val Arg Val Gly Glu Val Gly Gly Asn Thr Leu Gly Phe Tyr
            335                 340                 345
Asp Cys Gln Phe Asn Glu Asp Gly Ser Met Ile Ile Ala His Ala
```

```
                350                 355                 360
Phe His Gly Ala Leu His Leu Trp Lys Gln Asn Thr Val Asn Pro
                365                 370                 375
Arg Glu Trp Thr Pro Glu Ile Val Ile Ser Gly His Phe Asp Gly
                380                 385                 390
Val Gln Asp Leu Val Trp Asp Pro Glu Gly Glu Phe Ile Ile Thr
                395                 400                 405
Val Gly Thr Asp Gln Thr Thr Arg Leu Phe Ala Pro Trp Lys Arg
                410                 415                 420
Lys Asp Gln Ser Gln Val Thr Trp His Glu Ile Ala Arg Pro Gln
                425                 430                 435
Ile His Gly Tyr Asp Leu Lys Cys Leu Ala Met Ile Asn Arg Phe
                440                 445                 450
Gln Phe Val Ser Gly Ala Asp Glu Lys Val Leu Arg Val Phe Ser
                455                 460                 465
Ala Pro Arg Asn Phe Val Glu Asn Phe Cys Ala Ile Thr Gly Gln
                470                 475                 480
Ser Leu Asn His Val Leu Cys Asn Gln Asp Ser Asp Leu Pro Glu
                485                 490                 495
Gly Ala Thr Val Pro Ala Leu Gly Leu Ser Asn Lys Ala Val Phe
                500                 505                 510
Gln Gly Asp Ile Ala Ser Gln Pro Ser Asp Glu Glu Glu Leu Leu
                515                 520                 525
Thr Ser Thr Gly Phe Glu Tyr Gln Gln Val Ala Phe Gln Pro Ser
                530                 535                 540
Ile Leu Thr Glu Pro Pro Thr Glu Asp His Leu Leu Gln Asn Thr
                545                 550                 555
Leu Trp Pro Glu Val Gln Lys Leu Tyr Gly His Gly Tyr Glu Ile
                560                 565                 570
Phe Cys Val Thr Cys Asn Ser Ser Lys Thr Leu Leu Ala Ser Ala
                575                 580                 585
Cys Lys Ala Ala Lys Lys Glu His Ala Ala Ile Ile Leu Trp Asn
                590                 595                 600
Thr Thr Ser Trp Lys Gln Val Gln Asn Leu Val Phe His Ser Leu
                605                 610                 615
Thr Val Thr Gln Met Ala Phe Ser Pro Asn Glu Lys Phe Leu Leu
                620                 625                 630
Ala Val Ser Arg Asp Arg Thr Trp Ser Leu Trp Lys Lys Gln Asp
                635                 640                 645
Thr Ile Ser Pro Glu Phe Glu Pro Val Phe Ser Leu Phe Ala Phe
                650                 655                 660
Thr Asn Lys Ile Thr Ser Val His Ser Arg Ile Ile Trp Ser Cys
                665                 670                 675
Asp Trp Ser Pro Asp Ser Lys Tyr Phe Phe Thr Gly Ser Arg Asp
                680                 685                 690
Lys Lys Val Val Val Trp Gly Glu Cys Asp Ser Thr Asp Asp Cys
                695                 700                 705
Ile Glu His Asn Ile Gly Pro Cys Ser Ser Val Leu Asp Val Gly
                710                 715                 720
Gly Ala Val Thr Ala Val Ser Val Cys Pro Val Leu His Pro Ser
                725                 730                 735
Gln Arg Tyr Val Val Ala Val Gly Leu Glu Cys Gly Lys Ile Cys
                740                 745                 750
Leu Tyr Thr Trp Lys Lys Thr Asp Gln Val Pro Glu Ile Asn Asp
                755                 760                 765
```

```
Trp Thr His Cys Val Glu Thr Ser Gln Ser Gln Ser His Thr Leu
                770                 775                 780
Ala Ile Arg Lys Leu Cys Trp Lys Asn Cys Ser Gly Lys Thr Glu
                785                 790                 795
Gln Lys Glu Ala Glu Gly Ala Glu Trp Leu His Phe Ala Ser Cys
                800                 805                 810
Gly Glu Asp His Thr Val Lys Ile His Arg Val Asn Lys Cys Ala
                815                 820                 825
Leu
```

<210> 27
<211> 618
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3029920CD1

<400> 27

```
Met Lys Lys Asp Val Arg Ile Leu Leu Val Gly Glu Pro Arg Val
  1               5                  10                  15
Gly Lys Thr Ser Leu Ile Met Ser Leu Val Ser Glu Glu Phe Pro
             20                  25                  30
Glu Glu Val Pro Pro Arg Ala Glu Glu Ile Thr Ile Pro Ala Asp
             35                  40                  45
Val Thr Pro Glu Arg Val Pro Thr His Ile Val Asp Tyr Ser Glu
             50                  55                  60
Ala Glu Gln Ser Asp Glu Gln Leu His Gln Glu Ile Ser Gln Ala
             65                  70                  75
Asn Val Ile Cys Ile Val Tyr Ala Val Asn Asn Lys His Ser Ile
             80                  85                  90
Asp Lys Val Thr Ser Arg Trp Ile Pro Leu Ile Asn Glu Arg Thr
             95                 100                 105
Asp Lys Asp Ser Arg Leu Pro Leu Ile Leu Val Gly Asn Lys Ser
            110                 115                 120
Asp Leu Val Glu Tyr Ser Ser Met Glu Thr Ile Leu Pro Ile Met
            125                 130                 135
Asn Gln Tyr Thr Glu Ile Glu Thr Cys Val Glu Cys Ser Ala Lys
            140                 145                 150
Asn Leu Lys Asn Ile Ser Glu Leu Phe Tyr Tyr Ala Gln Lys Ala
            155                 160                 165
Val Leu His Pro Thr Gly Pro Leu Tyr Cys Pro Glu Glu Lys Glu
            170                 175                 180
Met Lys Pro Ala Cys Ile Lys Ala Leu Thr Arg Ile Phe Lys Ile
            185                 190                 195
Ser Asp Gln Asp Asn Asp Gly Thr Leu Asn Asp Ala Glu Leu Asn
            200                 205                 210
Phe Phe Gln Arg Ile Cys Phe Asn Thr Pro Leu Ala Pro Gln Ala
            215                 220                 225
Leu Glu Asp Val Lys Asn Val Val Arg Lys His Ile Ser Asp Gly
            230                 235                 240
Val Ala Asp Ser Gly Leu Thr Leu Lys Gly Phe Leu Phe Leu His
            245                 250                 255
```

```
Thr Leu Phe Ile Gln Arg Gly Arg His Glu Thr Thr Trp Thr Val
                260                 265                 270
Leu Arg Arg Phe Gly Tyr Asp Asp Asp Leu Asp Leu Thr Pro Glu
                275                 280                 285
Tyr Leu Phe Pro Leu Leu Lys Ile Pro Pro Asp Cys Thr Thr Glu
                290                 295                 300
Leu Asn His His Ala Tyr Leu Phe Leu Gln Ser Thr Phe Asp Lys
                305                 310                 315
His Asp Leu Asp Arg Asp Cys Ala Leu Ser Pro Asp Glu Leu Lys
                320                 325                 330
Asp Leu Phe Lys Val Phe Pro Tyr Ile Pro Trp Gly Pro Asp Val
                335                 340                 345
Asn Asn Thr Val Cys Thr Asn Glu Arg Gly Trp Ile Thr Tyr Gln
                350                 355                 360
Gly Phe Leu Ser Gln Trp Thr Leu Thr Thr Tyr Leu Asp Val Gln
                365                 370                 375
Arg Cys Leu Glu Tyr Leu Gly Tyr Leu Gly Tyr Ser Ile Leu Thr
                380                 385                 390
Glu Gln Glu Ser Gln Ala Ser Ala Val Thr Val Thr Arg Asp Lys
                395                 400                 405
Lys Ile Asp Leu Gln Lys Lys Gln Thr Gln Arg Asn Val Phe Arg
                410                 415                 420
Cys Asn Val Ile Gly Val Lys Asn Cys Gly Lys Ser Gly Val Leu
                425                 430                 435
Gln Ala Leu Leu Gly Arg Asn Leu Met Arg Gln Lys Lys Ile Arg
                440                 445                 450
Glu Asp His Lys Ser Tyr Tyr Ala Ile Asn Thr Val Tyr Val Tyr
                455                 460                 465
Gly Gln Glu Lys Tyr Leu Leu Leu His Asp Ile Ser Glu Ser Glu
                470                 475                 480
Phe Leu Thr Glu Ala Glu Ile Ile Cys Asp Val Val Cys Leu Val
                485                 490                 495
Tyr Asp Val Ser Asn Pro Lys Ser Phe Glu Tyr Cys Ala Arg Ile
                500                 505                 510
Phe Lys Gln His Phe Met Asp Ser Arg Ile Pro Cys Leu Ile Val
                515                 520                 525
Ala Ala Lys Ser Asp Leu His Glu Val Lys Gln Glu Tyr Ser Ile
                530                 535                 540
Ser Pro Thr Asp Phe Cys Arg Lys His Lys Met Pro Pro Pro Gln
                545                 550                 555
Ala Phe Thr Cys Asn Thr Ala Asp Ala Pro Ser Lys Asp Ile Phe
                560                 565                 570
Val Lys Leu Thr Thr Met Ala Met Tyr Pro His Val Thr Gln Ala
                575                 580                 585
Asp Leu Lys Ser Ser Thr Phe Trp Leu Arg Ala Ser Phe Gly Ala
                590                 595                 600
Thr Val Phe Ala Val Leu Gly Phe Ala Met Tyr Lys Ala Leu Leu
                605                 610                 615
Lys Gln Arg
```

<210> 28
<211> 596
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3332415CD1

<400> 28
Met Glu Pro Glu Leu Asp Ala Gln Lys Gln Pro Arg Pro Arg Arg
1 5 10 15
Arg Ser Arg Arg Ala Ser Gly Leu Ser Thr Glu Gly Ala Thr Gly
20 25 30
Pro Ser Ala Asp Thr Ser Gly Ser Glu Leu Asp Gly Arg Cys Ser
35 40 45
Leu Arg Arg Gly Ser Ser Phe Thr Phe Leu Thr Pro Gly Pro Asn
50 55 60
Trp Asp Phe Thr Leu Lys Arg Lys Arg Arg Glu Lys Asp Asp Asp
65 70 75
Val Val Ser Leu Ser Ser Leu Asp Leu Lys Glu Pro Ser Asn Lys
80 85 90
Arg Val Arg Pro Leu Ala Arg Val Thr Ser Leu Ala Asn Leu Ile
95 100 105
Ser Pro Val Arg Asn Gly Ala Val Arg Arg Phe Gly Gln Thr Ile
110 115 120
Gln Ser Phe Thr Leu Arg Gly Asp His Arg Ser Pro Ala Ser Ala
125 130 135
Gln Lys Phe Ser Ser Arg Ser Thr Val Pro Thr Pro Ala Lys Arg
140 145 150
Arg Ser Ser Ala Leu Trp Ser Glu Met Leu Asp Ile Thr Met Lys
155 160 165
Glu Ser Leu Thr Thr Arg Glu Ile Arg Arg Gln Glu Ala Ile Tyr
170 175 180
Glu Met Ser Arg Gly Glu Gln Asp Leu Ile Glu Asp Leu Lys Leu
185 190 195
Ala Arg Lys Ala Tyr His Asp Pro Met Leu Lys Leu Ser Ile Met
200 205 210
Ser Glu Glu Glu Leu Thr His Ile Phe Gly Asp Leu Asp Ser Tyr
215 220 225
Ile Pro Leu His Glu Asp Leu Leu Thr Arg Ile Gly Glu Ala Thr
230 235 240
Lys Pro Asp Gly Thr Val Glu Gln Ile Gly His Ile Leu Val Ser
245 250 255
Trp Leu Pro Arg Leu Asn Ala Tyr Arg Gly Tyr Cys Ser Asn Gln
260 265 270
Leu Ala Ala Lys Ala Leu Leu Asp Gln Lys Lys Gln Asp Pro Arg
275 280 285
Val Gln Asp Phe Leu Gln Arg Cys Leu Glu Ser Pro Phe Ser Arg
290 295 300
Lys Leu Asp Leu Trp Ser Phe Leu Asp Ile Pro Arg Ser Arg Leu
305 310 315
Val Lys Tyr Pro Leu Leu Leu Lys Glu Ile Leu Lys His Thr Pro
320 325 330
Lys Glu His Pro Asp Val Gln Leu Leu Glu Asp Ala Ile Leu Ile
335 340 345
Ile Gln Gly Val Leu Ser Asp Ile Asn Leu Lys Lys Gly Glu Ser
350 355 360
Glu Cys Gln Tyr Tyr Ile Asp Lys Leu Glu Tyr Leu Asp Glu Lys
365 370 375

```
Gln Arg Asp Pro Arg Ile Glu Ala Ser Lys Val Leu Leu Cys His
                380                 385                 390
Gly Glu Leu Arg Ser Lys Ser Gly His Lys Leu Tyr Ile Phe Leu
                395                 400                 405
Phe Gln Asp Ile Leu Val Leu Thr Arg Pro Val Thr Arg Asn Glu
                410                 415                 420
Arg His Ser Tyr Gln Val Tyr Arg Gln Pro Ile Pro Val Gln Glu
                425                 430                 435
Leu Val Leu Glu Asp Leu Gln Asp Gly Asp Val Arg Met Gly Gly
                440                 445                 450
Ser Phe Arg Gly Ala Phe Ser Asn Ser Glu Lys Ala Lys Asn Ile
                455                 460                 465
Phe Arg Ile Arg Phe His Asp Pro Ser Pro Ala Gln Ser His Thr
                470                 475                 480
Leu Gln Ala Asn Asp Val Phe His Lys Gln Gln Trp Phe Asn Cys
                485                 490                 495
Ile Arg Ala Ala Ile Ala Pro Phe Gln Ser Ala Gly Ser Pro Pro
                500                 505                 510
Glu Leu Gln Gly Leu Pro Glu Leu His Glu Glu Cys Glu Gly Asn
                515                 520                 525
His Pro Ser Ala Arg Lys Leu Thr Ala Gln Arg Arg Ala Ser Thr
                530                 535                 540
Val Ser Ser Val Thr Gln Val Glu Val Asp Glu Asn Ala Tyr Arg
                545                 550                 555
Cys Gly Ser Gly Met Gln Met Ala Glu Asp Ser Lys Ser Leu Lys
                560                 565                 570
Thr His Gln Thr Gln Pro Gly Ile Arg Arg Ala Arg Asp Lys Ala
                575                 580                 585
Leu Ser Gly Gly Lys Arg Lys Glu Thr Leu Val
                590                 595
```

<210> 29
<211> 589
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4031536CD1

<400> 29

```
Met Ser Lys Pro Gly Lys Pro Thr Leu Asn His Gly Leu Val Pro
  1                 5                  10                  15
Val Asp Leu Lys Ser Ala Lys Glu Pro Leu Pro His Gln Thr Val
                 20                  25                  30
Met Arg Ile Phe Ser Ile Ser Ile Ile Ala Gln Gly Leu Pro Phe
                 35                  40                  45
Cys Arg Arg Arg Met Lys Arg Lys Leu Asp His Gly Ser Glu Val
                 50                  55                  60
Arg Ser Phe Ser Leu Gly Lys Lys Pro Cys Lys Val Ser Glu Tyr
                 65                  70                  75
Thr Ser Thr Thr Gly Leu Val Pro Cys Ser Ala Thr Pro Thr Thr
                 80                  85                  90
Phe Gly Asp Leu Arg Ala Ala Asn Gly Gln Gly Gln Gln Arg Arg
```

```
                95                  100                 105
Arg Ile Thr Ser Val Gln Pro Pro Thr Gly Leu Gln Glu Trp Leu
            110                 115                 120
Lys Met Phe Gln Ser Trp Ser Gly Pro Glu Lys Leu Leu Ala Leu
            125                 130                 135
Asp Glu Leu Ile Asp Ser Cys Glu Pro Thr Gln Val Lys His Met
            140                 145                 150
Met Gln Val Ile Glu Pro Gln Phe Gln Arg Asp Phe Ile Ser Leu
            155                 160                 165
Leu Pro Lys Glu Leu Ala Leu Tyr Val Leu Ser Phe Leu Glu Pro
            170                 175                 180
Lys Asp Leu Leu Gln Ala Ala Gln Thr Cys Arg Tyr Trp Arg Ile
            185                 190                 195
Leu Ala Glu Asp Asn Leu Leu Trp Arg Glu Lys Cys Lys Glu Glu
            200                 205                 210
Gly Ile Asp Glu Pro Leu His Ile Lys Arg Arg Lys Val Ile Lys
            215                 220                 225
Pro Gly Phe Ile His Ser Pro Trp Lys Ser Ala Tyr Ile Arg Gln
            230                 235                 240
His Arg Ile Asp Thr Asn Trp Arg Arg Gly Glu Leu Lys Ser Pro
            245                 250                 255
Lys Val Leu Lys Gly His Asp Asp His Val Ile Thr Cys Leu Gln
            260                 265                 270
Phe Cys Gly Asn Arg Ile Val Ser Gly Ser Asp Asp Asn Thr Leu
            275                 280                 285
Lys Val Trp Ser Ala Val Thr Gly Lys Cys Leu Arg Thr Leu Val
            290                 295                 300
Gly His Thr Gly Gly Val Trp Ser Ser Gln Met Arg Asp Asn Ile
            305                 310                 315
Ile Ile Ser Gly Ser Thr Asp Arg Thr Leu Lys Val Trp Asn Ala
            320                 325                 330
Glu Thr Gly Glu Cys Ile His Thr Leu Tyr Gly His Thr Ser Thr
            335                 340                 345
Val Arg Cys Met His Leu His Glu Lys Arg Val Val Ser Gly Ser
            350                 355                 360
Arg Asp Ala Thr Leu Arg Val Trp Asp Ile Glu Thr Gly Gln Cys
            365                 370                 375
Leu His Val Leu Met Gly His Val Ala Ala Val Arg Cys Val Gln
            380                 385                 390
Tyr Asp Gly Arg Arg Val Val Ser Gly Ala Tyr Asp Phe Met Val
            395                 400                 405
Lys Val Trp Asp Pro Glu Thr Glu Thr Cys Leu His Thr Leu Gln
            410                 415                 420
Gly His Thr Asn Arg Val Tyr Ser Leu Gln Phe Asp Gly Ile His
            425                 430                 435
Val Val Ser Gly Ser Leu Asp Thr Ser Ile Arg Val Trp Asp Val
            440                 445                 450
Glu Thr Gly Asn Cys Ile His Thr Leu Thr Gly His Gln Ser Leu
            455                 460                 465
Thr Ser Gly Met Glu Leu Lys Asp Asn Ile Leu Val Ser Gly Asn
            470                 475                 480
Ala Asp Ser Thr Val Lys Ile Trp Asp Ile Lys Thr Gly Gln Cys
            485                 490                 495
Leu Gln Thr Leu Gln Gly Pro Asn Lys His Gln Ser Ala Val Thr
            500                 505                 510
```

```
Cys Leu Gln Phe Asn Lys Asn Phe Val Ile Thr Ser Ser Asp Asp
                515                 520                 525
Gly Thr Val Lys Leu Trp Asp Leu Lys Thr Gly Glu Phe Ile Arg
                530                 535                 540
Asn Leu Val Thr Leu Glu Ser Gly Gly Ser Gly Gly Val Val Trp
                545                 550                 555
Arg Ile Arg Ala Ser Asn Thr Lys Leu Val Cys Ala Val Gly Ser
                560                 565                 570
Arg Asn Gly Thr Glu Glu Thr Lys Leu Leu Val Leu Asp Phe Asp
                575                 580                 585
Val Asp Met Lys
```

<210> 30
<211> 3375
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 708398CB1

<400> 30

```
ggggagaagg gagcccgcag gatcaggggt cagagttagg gggcttccct cctgctgcac  60
cctcatctca gggccgccaa cttccagctg cagcggcgac tttcagtttc atttccacgg 120
accctcctgc ctgggcccgc agccgccgcc gcgatgccca gtaagttcag ctgccggcag 180
ctccgggagg cgggccagtg tttcgagagt ttcctggtcg ttcggggact ggacatggag 240
acagatcgcg agcggctgcg gaccatttat aaccgcgact tcaagatcag ctttgggacc 300
cccgcccctg gcttctcctc catgctgtat ggaatgaaga ttgcaaatct ggcctacgtc 360
accaagactc gggtcaggtt cttcagactc gaccgctggg ccgacgtgcg gttcccagaa 420
aagaggagaa tgaagctggg gtcagatatc agcaaacacc acaagtcact gctagccaag 480
atcttttatg acagggctga gtatcttcat gggaaacatg gtgtggatgt ggaagtccag 540
gggccccatg aagcccgaga tgggcagctc cttatccgcc tggatttgaa ccgcaaagag 600
gtgctgaccc tgaggcttcg gaatggcgga acccagtctg ttaccctcac tcacctcttc 660
ccactctgcc ggacacccca gtttgctttc tacaatgaag accaggagtt gccctgtcca 720
ctgggccccg gtgaatgcta tgaactccat gtccattgta agaccagctt tgtgggctac 780
ttcccagcca cagtgctctg ggagctgctg ggacctgggg agtcgggttc agaaggagcc 840
ggcacattct acattgcccg cttcttggct gccgtcgccc acagcccccc ggctgcacag 900
ctgaagccca tgactccctt caagcggacc cggatcaccg gaaaccctgt ggtgaccaat 960
cggatagagg aaggagagag acctgaccgc gctaagggct atgacctgga gttaagtatg 1020
gcgctgggga catactaccc acctccccgc ctcaggcagc tgctccccat gcttcttcag 1080
ggaacaagta tcttcactgc ccctaaggag atcgcagaga tcaaggccca gctggagaca 1140
gccctgaagt ggaggaacta tgaggtgaag ctgcggctgc tgctgcacct ggaggaactg 1200
cagatggagc atgatatccg gcactatgac ctggagtcgg tgcccatgac ctgggaccct 1260
gtggaccaga accccaggct gctcacgctg gaggttcctg gagtgactga gagccgcccc 1320
tcagtgctac ggggcgacca cctgtttgcc cttttgtcct cggagacaca ccaggaggac 1380
cccatcacat ataagggctt tgtgcacaag gtggaattgg accgtgtcaa gctgagcttt 1440
tccatgagcc tcctgagccg ctttgtggat gggctgacct tcaaggtgaa ctttaccttc 1500
aaccgccagc cgctgcgagt ccagcaccgt gccctggagc tgacagggcg ctggctgctg 1560
tggcccatgc tctttcctgt ggcacctcgg gacgtcccgc tgctgccctc agatgtgaaa 1620
ctcaagctgt acgaccggag tctggagtca aacccagagc agctgcaggc catgaggcac 1680
attgttacgg gcaccacccg tccagccccc tacatcatct ttgggcctcc aggcaccggc 1740
aagactgtca cgttagtgga ggcaattaag caggtggtga agcacttgcc caaagcccac 1800
atcttggcct gcgctccatc caactcaggg gctgacctac tctgtcaaag gctccgggtc 1860
caccttccta gctccatcta ccgcctcctg gcccccagca gggacatccg catggtacct 1920
```

gaggacatca agccctgctg caactgggac gcaaagaagg gggagtatgt atttcccgcc 1980
aagaagaagc tgcaggaata ccgggtctta attaccaccc tcatcactgc cggcaggttg 2040
gtctcggccc agtttcccat tgatcacttc acacacatct tcatcgatga ggctggccac 2100
tgcatggagc ctgagagtct ggtagctata gcagggctga tggaagtaaa ggaaacaggt 2160
gatccaggag ggcagctggt gctggcagga gaccctcggc agctggggcc tgtgctgcgt 2220
tccccactga cccagaagca tggactggga tactcactgc tggagcggct gctcatctac 2280
aactccctgt acaagaaggg ccctgatggc tatgacccca agttcataac caagctgctc 2340
cgcaactaca ggtctcatcc caccatcctg gacattccta accagctcta ttatgaaggg 2400
gagctgcagg cctgtgctga tgtcgtggat cgagaacgct tctgccgctg ggcgggccta 2460
cctcgacagg gctttcccat catctttcac ggcgtaatgg gcaaagatga gcgtgaaggc 2520
aacagcccat ccttcttcaa ccctgaagag gctgccacag tgacttccta cctgaagctg 2580
ctcctggccc cctcctccaa gaagggcaaa gctcgcctga gccctcgaag tgtgggcgtc 2640
atctccccgt accggaaaca ggtggagaaa atccgttact gcatcaccaa acttgacagg 2700
gagcttcgag gactggatga catcaaggac ttgaaggtgg gttcagtaga agaattccaa 2760
ggccaagaac gaagcgtcat cctcatctcc accgtgcgaa gcagccagag ctttgtgcag 2820
ctggatctgg actttaatct gggtttcctt aagaacccca agaggttcaa tgtagctgtg 2880
acccgggcca aggccctgct catcatcgtg gggaacccca ttctcctggg ccatgaccct 2940
gactggaaag tattcctgga gttctgtaaa gaaaacggag ggtataccgg gtgtcccttc 3000
cctgccaaac tggacctgca acagggacag aatttactgc aaggtctgag caagctcagc 3060
ccctctacct cagggcccca cagccatgac tacctccccc aggagcggga gggtgaaggg 3120
ggcctgtctc tgcaagtgga gccagagtgg aggaatgagc tctgaagaca cagcacccag 3180
ccttctcgca ccagccaagc cttaactgcc tgcctgaccc tgaaccagaa cccagctgaa 3240
ctgcccctcc aagggacagg aaggctgggg gagggagttt acaacccaag ccattccacc 3300
ccctcccctg ctggggagaa tgacacatca agctgctaac aattgggggа aggggaagga 3360
agaaaactct gaaac 3375

<210> 31
<211> 2434
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1259937CB1

<400> 31
caaggatccg atgggtatat ggagtgtgag gtaatggatc attcatgtgg aaggatgcag 60
ggggtttttg agaccagggt ttggaagaga gttcagcact gctggtagtt ttgggaatca 120
cccatgtgca ggcgacacat gaggcagtaa ggaactctgc aggggtccct gagatttgga 180
aatgtaggga agagcaatgg attgaggtcc gaacctggag gatctgctat acgcagagct 240
gggaggaggg acagagtcag taccagagtc ggaaaaaagc agggtgggaa ggggaacctg 300
agtcaggaga cttgcctggc aggcgctgcc ctgccagcag aggcctgaca gtggtttcca 360
tgaactgcat ccctgctgtg ggctgggaca gggccactga cacagtatcg gagcacagaa 420
ggggaaagga gcaggaggga ttccaactct gccagttagc agctgtgtgg ctttgggcat 480
gttacttaac ctctctgagc ctcatttatt tcatccataa aatggaaata aaaataatac 540
ttttgtcaaa ggcgcattgt gaatatttag atcctcagaa taatgcctgg cttgtagcaa 600
atggtagctg gaggaaaagg aagagaaaac caaagtcagc agctgaagga ttttcatatt 660
agaactgctc tggacctatc tggcagatgc agaagcacac acacacggag gggcatggat 720
ttgccccgcc cttagacatg ttgtgtcttc tcctggatcc ttggtcccag gtgccttacc 780
tgagctcagg tgaatgtggc aagcagagcc ctctggtggt gtgaatgctg tgtggcgccc 840
gtgctcctgg tgacacaggg acctcacaat ccctccctcc acggtctcct ctcatgtcct 900
cccagcctta ttttctcgtt cctcttcctc ccaggcccgg aacttgcctg tttggctccc 960
caaccaggac gagccccttc ctggcagcag ctgtgccatc caagttgggg ataaagtccc 1020
ctatgacatc tgccggccag accactcagt gttgaccctg cagctgcctg tgacagcctc 1080

cgtgagagag gtgatggcag cgttggccca ggaggatggc tggaccaagg ggcaggtgct 1140
ggtgaaggtc aattctgcag gtgatgccat tggcctgcag ccagatgccc gtggtgtggc 1200
cacatctctg gggctcaatg agcgtctctt tgttgtcaac ccacaggaag tgcatgagct 1260
gatcccacac cctgaccagc tggggcccac tgtgggctct gctgaggggc tggacctggt 1320
gagtgccaag gacctggcag gccagctgac ggaccacgac tggagcctct tcaacagtat 1380
ccaccaggtg gagctgatcc actatgtgct gggcccccag catctgcggg atgtcaccac 1440
cgccaacctg gagcgcttca tgcgccgctt caatgagctg cagtactggg tggccaccga 1500
gctgtgtctc tgccccgtgc ccggcccccg ggcccagctg ctcaggaagt tcattaagct 1560
ggcggcccac ctcaaggagc agaagaatct caattccttc tttgccgtca tgtttggcct 1620
cagcaactcg gccatcagcc gcctagccca cacctgggag cggctgcctc acaaagtccg 1680
gaagctgtac tccgccctcg agaggctgct ggatccctca tggaaccacc gggtataccg 1740
actggccctc gccaagctct cccctcctgt catcccccttc atgcccccttc ttctcaaaga 1800
catgaccttc attcatgagg gaaaccacac actagtggag aatctcatca actttgagaa 1860
gatgagaatg atggccagag ccgcgcggat gctgcaccac tgccgaagcc acaaccctgt 1920
gcctctctca ccactcagaa gccgagtttc ccacctccac gaggacagcc aggtggcgag 1980
gatttccaca tgctcggagc agtccctgag cacccggagt ccagccagca cctgggctta 2040
tgtccagcag ctgaaggtca ttgacaacca gcgggaactc tcccgcctct cccgagagct 2100
ggagccatga ggaggggctg ggactggagc tggagcaggc acttgcagcc gggaaagcca 2160
gggtgtgccg ggccaagata ctcacaggct ggccacagct gggcaaggct ctccgtggag 2220
tggactcgag tccctggagc aggcagtgtg gaggcagcca tcccctgtga tgactggcag 2280
ctaaggagga cctcggagtg gacccgagcc aggaataacg aatgacccaa ggccaaggaa 2340
gggaggacag agaggcccca ggagtgggtg gagagtggag tgcgctggga cgttgtgtgc 2400
aatagagagg tctccacacc agaaaaaaaa aaaa 2434

<210> 32
<211> 892
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1452285CB1

<400> 32
cacgcctctc tctgcaccta cacttgcgct ccccaagtct ctctcgtgcg cagagcccag 60
gctgcgcttc cctggtcagg cacggcacgt ctggccggcc gccaggatgc aggccccgca 120
caaggagcac ctgtacaagt tgctggtgat tggcgacctg ggcgtgggga agaccagtat 180
catcaagcgc tacgtgcacc agaacttctc ctcgcactac cgggccacaa tcggcgtgga 240
cttcgcgctc aaggtgctcc actgggaccc ggagactgtg gtgcgcctgc agctctggga 300
tatcgcaggt caagaaagat ttggaaacat gacgagggtc tattaccgag aagctatggg 360
tgcatttatt gtcttcgatg tcaccaggcc agccacattt gaagcagtgg caaagtggaa 420
aaatgatttg gactccaagt taagtctccc taatggcaaa ccggtttcag tggttttgtt 480
ggccaacaaa tgtgaccagg ggaaggatgt gctcatgaac aatggcctca agatggacca 540
gttctgcaag gagcacggtt tcgtaggatg gtttgaaaca tcagcaaagg aaaatataaa 600
cattgatgaa gcctccagat gcctggtgaa acacatactt gcaaatgagt gtgacctaat 660
ggagtctatt gagccggacg tcgtgaagcc ccatctcaca tcaaccaagg ttgccagctg 720
ctctggctgt gccaaatcct agtaggcacc tttgctggtg tctggtagga atgacctcat 780
tgttccacaa attgtgcctc tatttttacc attttgggta aacgtcagga tagagatacc 840
acatgtggca agccaaagat ctatgcctcc atatgtgcct ttctgttagc tt 892

<210> 33

<211> 2288
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1812894CB1

<400> 33
cggctcgagc ccagatggag gcaacagtac taggttgcag gacttgctaa gccggtaggt 60
ggcctggggt aagagatggg aagagaggct gatccctgtc ccccacagca ctggaggact 120
cccggtccca ggaaggggca aatggtgagg ccgagtcagg tgagctcagc cggcttcggg 180
ctgagctggc aggcgccctg gcagaaatgg aaaccatgaa ggctgtggca gaggtgagcg 240
agagcacgaa ggccgaggct gtggctgcgg tgcagcggca gtgccaagag gaggtggcct 300
cgctgcaggc catcctgaaa gactccatca gcagctatga agcccagatc accgccctga 360
agcaggagcg acagcagcag cagcaggact gtgaggagaa ggagcgggag ctgggccgcc 420
tgaagcagct gctgtcccgg gcctaccccc tggactccct ggagaagcag atggaaaagg 480
cccacgagga ctcggagaag ctgcgggaga tcgtactgcc catggaaaag gagatcgagg 540
agctgaaggc gaagctgctg agggccgagg agctgattca ggagatccag agacgtcccc 600
ggcatgcccc ttccctgcac ggctccacgg agttgctgcc cctgtcccgg gatccatcgc 660
ccccgctgga gcctctggag gagctgagcg gagatggggg tccagccgct gaggccttcg 720
ctcacaactg cgatgacagc gcctccatct cctccttctc ccttggcggt ggggtcggca 780
gcagctcctc cctgccccaa agccgccagg gcctgagccc tgaacaggaa gagacggcct 840
cgctggtgtc tacgggcacc ctggttcccg agggcatcta cctgcccccc cctggctacc 900
agctcgtccc agacactcag tgggagcagc tgcagacaga gggccgacag ctgcagaagg 960
acctggagag cgtcagtcgc gagcgggacg agctccaaga gggcctgaga cggagcaatg 1020
aggactgtgc caagcagatg caggtgctcc tggcccaggt ccagaactca gagcagctgc 1080
tgcggaccct gcaagggacc gtgagccagg cccaggagcg ggtgcagctg cagatggcgg 1140
agctggtcac cacccacaag tgcctgcacc atgaggtaaa gcggttgaat gaggaaaacc 1200
aagggctccg ggccgagcag ctgccatcct cagcccccca gggctcgcag caggagcagg 1260
gcgaggagga atcactgccc agctctgtgc cagagctgca gcagctgctg tgctgcacgc 1320
ggcaagaggc gagggcccgg ctgcaggccc aggagcacgg ggccgagcgc ctgcggatcg 1380
agatcgtgac gctgcgggag gctctggagg aggagacagt ggccagggcc agcctggagg 1440
ggcagctgag ggtgcagcgg gaggagacag aggtgctgga ggcctccctg tgcagcctga 1500
ggacagagat ggagcgggtg cagcaggaac agagcaaggc ccagctccca gacctcctct 1560
cagaacagag ggccaaggtg ctgcggctgc aggcagagct ggagaccagt gagcaggtgc 1620
agagggattt cgtgcgactg tcccaggccc tgcaggtgcg cctagagcgg atccgccagg 1680
ctgagaccct ggagcaagtg cgcagcatca tggatgaggc gccactcacg gacgtcaggg 1740
acatcaagga cacctgaggg gtcaggatat ccccaccccc accctgggaa agacgccttt 1800
ccccactcct gaaccatgag gcctcgctct ggggtcttgg atggcttttc caccgtccct 1860
gagactgggg ttgaggggac tgacgggggc caccaccgcc ccgccctcca gcgcctcctc 1920
ccagggtggc tgggcctcct gttctcaggg atcacacctg ggtgaggggc ccaagccccc 1980
cccggaacca aaggtgcagg ctcaggcctg cggctttctg gctgctgtgc tgcctcctgg 2040
gctccagccc tcccctgccc ccagcccgtc ccctgcccag ggcacagcgg agccatgggg 2100
gctgggagtc cccatcagag gcagtgaggt gggccccggc cctgggacag gcagctgcct 2160
tctggtctgc atgacactaa gacgcttgtc cacagcggcg acccaggcct ccaagcttgc 2220
acagaggcaa ggccagactt ttccgtcgtt tattttcaat aaataagcag ctcagcgcaa 2280
aaaaaaaa 2288

<210> 34
<211> 1813
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> 1708, 1711, 1713, 1715
<223> Incyte ID No: a or g or c or t, unknown, or other

<220>
<221> misc_feature
<223> Incyte ID No: 3074884CB1

<400> 34
gcacgaagga ggcccggctt caggtggccc tggcggagat gccggaagat gcggacgaga 60
acgccgagga ggagctgctg cggggagagc ctctgctgcc ggcggggacc cagcgcgtgt 120
gtctggttca ccctgacgtc aagtggggcc cggggaagtc gcagatgact cgagccgagt 180
ggcaggtggc ggaggccaca gcgctggtgc acacgctgga cggctggtcc gtggtgcaga 240
caatggtcgt gtccaccaaa acgccggaca ggaagctcat ctttggcaaa gggaactttg 300
agcacctgac agaaaagatc cgagggtctc cagacgtcac gtgcgtcttc ctgaacgtgg 360
agaggatggc tgccccgacc aagaaagaac tggaagccgc ctggggcgtg gaggtgtttg 420
accgcttcac ggtcgtcctg cacatcttcc gctgtaacgc ccgcacgaag gaggcccggc 480
ttcaggtggc cctggcggag atgccgctgc acaggtcgaa cttgaaaagg gacgtcgccc 540
acctgtaccg aggagtcggc tcgcgctaca tcatggggtc aggagaatcc ttcatgcagc 600
tgcagcagcg tctcctgaga gagaaggagg ccaagatcag gaaggccttg gacaggcttc 660
gcaagaagag gcacctgctc cgccggcagc ggacgaggcg ggagttcccc gtgatctccg 720
tggtggggta caccaactgc ggaaagacca cgctgatcaa ggcactgacg ggcgatgccg 780
ccatccagcc acgggaccag ctgtttgcca cgctggacgt cacggcccac gcgggcacgc 840
tgccctcacg catgaccgtc ctgtacgtgg acaccatcgg cttcctctcc cagctgccgc 900
acggcctcat cgagtccttc tccgccaccc tggaagacgt ggcccactcg gatctcatct 960
tgcacgtgag ggacgtcagc caccccgagg cggagctcca gaaatgcagc gttctgtcca 1020
cgctgcgtgg cctgcagctg cccgccccgc tcctggactc catggtggag gttcacaaca 1080
aggtggacct cgtgcccggg tacagcccca cggaaccgaa cgtcgtgccc gtgtctgccc 1140
tgcggggcca cgggctccag gagctgaaag ctgagctcga tgcggcggtt ttgaaggcga 1200
cggggagaca gatcctcact ctccgtgtga ggctcgcagg ggcgcagctc agctggctgt 1260
ataaggaggc cacagttcag gaggtggacg tgatccctga ggacggggcg gccgacgtga 1320
gggtcatcat cagcaactca gcctacggca aattccggaa gctctttcca ggatgaacgg 1380
acgcccacag aggcctgcgg ggtgggggca tcgctgcctg gggagctgag gcgttaccgc 1440
tgtgttgggg gcagcttggt gtcaggtgca gcagggtcct ccttgtctgg ttctgcaccc 1500
gtctcgctcc cagccatttg ctgggatgac cgtgcaggcc ggtgacacgg ccgcacctgc 1560
cccaaagcgg gccgcccgag cgtccactcc aagcctgagc atccacacaa ttccagtggg 1620
ccctcggtgc ctgctgtgaa ctgctttccc tcggaatgtt tccgtaacag gacattaaac 1680
ctttgttttt acttccgtga aaaaaaanac ngngnaaaaa aaaaaggggc ggcccgctcc 1740
tagaggattc caagccttac cgtaacgcgt tgcattggcg agcggtcata agcttcttct 1800
aataggggat cac 1813

<210> 35
<211> 1733
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3452277CB1

<400> 35
ctacggcctg gaccgagtga ccaatccgaa tgaagtcaag gtaaaccaga aacaaacagt 60
cgttgctgtc aaaaaagaga tcatgtatta ccaacaggcc ttgatgaggt ccacagtgaa 120

gtcttctgtg tccctgggag ggattgtgaa atacagtgag cagttctcat ccaacgatgc 180
catcatgtca ggctgcctcc ccagcaaccc ctggatcacc gatgacaccc agttctggga 240
cttaaatgcc aaattggtgg aaatcccaac caagatgcga gtggaacgat gggccttcaa 300
cttcagcgaa ttgatccgag accccaaagg tcgacagagc ttccagtact tcctcaagaa 360
agaattcagt ggagagaatc tgggattctg ggaagcctgc gaggatctga agtatggaga 420
tcagtccaaa gtcaaggaga aagcagagga gatttacaag ctgttcctgg ccccgggggc 480
gaggcgctgg atcaacatag atggcaaaac catggacatc acagtgaagg ggctgaagca 540
ccccaccgc tatgtgctgg acgccgcaca aacccacatt tacatgctca tgaagaagga 600
ttcttatgct cgctatttaa aatctccgat ctataaggac atgctggcca aagctattga 660
acctcaggaa accaccaaga aaagctccac cctccctttt atgcggcgtc acctgcgctc 720
cagcccaagc cctgtcatcc tgagacagct ggaagaggaa gccaaggccc gagaagcagc 780
caacactgtg gacatcaccc agccgggcca gcacatggct cccagccccc atctgaccgt 840
gtacaccggg acctgcatgc ccccgtctcc ttctagcccc ttctcctcct cctgccgctc 900
ccccaggaag cctttcgcct cacccagccg cttcatccgg cgacccagca ccaccatctg 960
cccctcaccc atcagagtgg ccttggagag ctcatcgggc ttggagcaga aaggggagtg 1020
cagcgggtcc atggcccccc gtgggccctc tgtcaccgag agcagcgagg cctccctcga 1080
cacctcctgg cctcgcagcc ggcccagggc ccctcctaag gcccgcatgg ctctgtcctt 1140
cagcaggttt ctgagacgag gctgtctggc ctcacctgtc tttgccaggc tctcacccaa 1200
gtgccctgct gtgtcccacg ggagggtgca gcccctgggg gacgtgggcc agcagctgcc 1260
acgattgaaa tccaagagag tagcaaactt tttccagatc aaaatggatg tgcccacggg 1320
gagcgggacc tgcttgatgg actcggagga tgctggaaca ggagagtcgg gtgaccgggc 1380
cacagaaaag gaggtcatct gcccctggga gagcctgtaa ggaaagaggc aggctgagct 1440
gggggctctg gaccaggaag atgctctgac agatgccatg gtatgggcca caggacacac 1500
ttgctcgaga accaaagtgc atttgggtga catttgaaga ttggggagac aagatggggt 1560
agattgtggc aaagaatgct ctggctggtt accaggggcc aactccttct cctcttcctg 1620
accctccctc ccctgggcag aagaaacgca tgtggaccag aagactttcc ctgctgcctt 1680
aaaaccaata aaaggttaac tttaagtttc ttggaaaaaa aaaaaaaaag ggg 1733

<210> 36
<211> 1776
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4203832CB1

<400> 36
cccagccgag cccagcctag cccgagccca gcccgagcga accgcgagcc ccaagcccga 60
gccgcgccca gcccgagcag agccctccag ccgctcaccc cgcgtgccac cccagcgacc 120
ctcagccgct ctctgccctt ctctcggccc cgcgcccgcc ctcgcggccc ctctgcccaa 180
tgaaactggc cgcgatgatc aagaagatgt gcccgagcga ctcggagctg agtatcccgg 240
ccaagaactg ctatcgcatg gtcatcctcg gctcgtccaa ggtgggcaag acggccatcg 300
tgtcgcgctt cctcaccggc cgcttcgagg acgcctacac gcctaccatc gaggacttcc 360
accgcaagtt ctactccatc cgcggcgagg tctaccagct cgacatcctc gacacgtccg 420
gcaaccaccc gttccccgcc atgcggtgcc tctccatcct cacaggagac gttttcatcc 480
tggtgttcag tctggacaac cgcgactcct tcgaggaggt gcagcggctc aggcagcaga 540
tcctcgacac caagtcttgc ctcaagaaca aaaccaagga gaacgtggac gtgcccctgg 600
tcatctgcgg caacaagggt gaccgcgact tctaccgcga ggtggaccag cgcgagatcg 660
agcagctggt gggcgacgac ccccagcgct gcgcctactt cgagatctcg gccaagaaga 720
acagcagcct ggaccagatg ttccgcgcgc tcttcgccat cgccaagctg cccagcgaga 780
tgagcccaga cctgcaccgc aaggtctcgg tgcagtactg cgacgtgctg cacaagaagg 840
cgctgcggaa caagaagctg ctgcgggccg gcagcggcgg cggcggcggc gacccgggcg 900
acgcctttgg catcgtggca cccttcgcgc gccggcccag cgtacacagc gacctcatgt 960

acatccgcga gaaggccagc gccggcagcc aggccaagga caaggagcgc tgcgtcatca 1020
gctaggagcc ccgccgcgct ggcgacacaa cctaaggagg acctttttgt taagtcaaat 1080
ccaacggccc ggtgcgcccc aggccgggag cgcgcgcgga ctggcgtctc ccctcccggc 1140
gatccgcccc cagcactggg gaggcgccac tgaaccgaga agggacggtc atctgctccg 1200
gaaggaaaga gaacgggcca agactgggac tattccccac ccccggtccc ccattgaggc 1260
ccgccacccc cataactttg ggagcgaggg cccagccgag ggtggattta tcttctcaaa 1320
gacctaagag tgagcgcggg gtgggggagg gatgtgaagt tatccagcct ctgctaggct 1380
tcaagaaacc gtcatgcccg cttgagggtc aggacccacg gggcattatc ttgtctgtga 1440
ttccgggttg ctgtgacagc cggtagagcc tctgccctcc cgaaactaag cgggggggcg 1500
tgggtcaaat catagccaag tgacttgttt acatgtgagt gaaactgcac aaaggaacac 1560
aaaacaaaac ttgcacttta acggtagttc cggtgtcaac atggacacga acaaaacctt 1620
acccaggtgt ttatactgtg tgtgtgtgag gtctttaaag ttattgcttt atttggtttt 1680
ttaatataca ataaaataat ttaaaatgga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1740
aaaaaaaaaa aaaaaaaaaa gaaaaaaaaa aaaaaa 1776

<210> 37
<211> 1316
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 104368CB1

<400> 37
cggacgcgtg gggcggcttt tctctttagc gctcagggcg ctgacccact gctcttcctc 60
ttaagaaagt gctccattcc ttccggcgcc cggagctgct ggcccaaagg gatccggagc 120
gagctagggc agacaccatg accacccttg atgataagtt gctgggggag aaactgcagt 180
actactatag cagcagtgag gatgaggaca gtgaccacga ggacaaggac cgaggcagat 240
gtgccccagc cagcagttct gtgcctgcag aggctgagct ggcaggcgaa ggcatctcag 300
ttaacacagg cccaaaaggt gtgatcaatg actggcgccg cttcaagcag ttggagacag 360
agcagaggga ggagcagtgc cgggagatgg aaaggctgat caagaagctg tcaatgactt 420
gcaggtccca tctggatgaa gaggaggagc aacagaaaca gaaagacctc caggagaaga 480
tcagtgggaa gatgactctg aaggagtttg ccataatgaa tgaggaccaa gatgatgaag 540
agtttctgca gcagtaccgg aagcagcgaa tggaagagat gcggcagcag cttcacaagg 600
ggccccaatt caagcaggtt tttgagatct ccagtggaga agggttttta gacatgattg 660
ataaagaaca gaaaagcatt gtcatcatgg ttcatattta tgaggatggc attccaggga 720
ccgaagccat gaatggttgc atgatctgcc ttgccgcaga gtacccagct gtcaagttct 780
gcaaggtgaa gagctcagtt attggcgcca gcagtcagtt caccaggaat gcccttcctg 840
ccctgctgat ctataagggg ggtgaattga tcggcaattt tgttcgtgtt actgaccagc 900
tgggggatga tttctttgct gtggaccttg aagcttttct ccaggaattt ggattactcc 960
cagaaaagga agtcttggtg ctgacatctg tgcgtaactc tgccacgtgt cacagtgagg 1020
atagcgacct ggaaatagat tgaactgata gtctagttgc atagatttct cattgtttgg 1080
gttggaatac acgtcattgt ttatttttgt tcctttgtct tctggctttt cagctgttct 1140
ttgtagtccc ttttattatg cataaaataa agaaattctt agattaaatc agaatgctga 1200
ataaccttgt agctagcaat aaggtgactt acagttgtat aaacaggaag ccaggctttt 1260
gaactgttta cttaagattc tgtggtgtga catctctgtt attgtttcca gtcaat 1316

<210> 38
<211> 1554
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1441680CB1

<400> 38
gtggcttgtg gagtggcgac cgttagtgag gcggttgctg agacagacgc tgaggcgggt 60
aggaggagcc cgagccgtaa gggaagccgt gatgagggcc gtgttgacgt ggagagataa 120
agccgagcac tgtataaatg acatcgcatt taagcctgat ggaactcaac tgattttggc 180
tgccggaagc agattactgg tttatgacac ctctgatggc accttacttc agcccctcaa 240
gggacacaaa gacactgtgt actgtgtggc atatgcgaag gatggcaagc gctttgcttc 300
tggatcagct gacaaaagcg ttattatctg gacatcaaaa ctggaaggca ttctgaagta 360
cacgcacaat gatgctatac aatgtgtctc ctacaatcct attactcatc aactggcatc 420
ttgttcctcc agtgactttg ggttgtggtc tcctgaacag aagtctgtct ccaaacacaa 480
atcaagcagc aagatcatct gctgcagctg gacaaatgat ggtcagtacc tggcgctggg 540
gatgttcaat gggatcatca gcatacggaa caaaaatggc gaggagaaag taaagatcga 600
gcggccgggg ggctccctct cgccaatatg gtccatctgc tggaaccctt caagagagga 660
acgtaatgac atcctggctg tggctgactg gggacagaaa gtttccttct accagctgag 720
tggaaaacag attggaaagg atcgggcact gaactttgac ccctgctgca tcagctactt 780
tactaaaggc gagtacattt tgctgggggg ttcagacaag caagtatctc ttttcaccaa 840
ggatggagtg cggcttggga ctgttgggga gcagaactcc tgggtgtgga cgtgtcaagc 900
gaaaccggat tccaactatg tggtggtcgg ctgccaggac ggcaccattt ccttctacca 960
gcttattttc agcacagtcc atggagttta caaggaccgc tatgcctaca gggatagcat 1020
gactgacgtc attgtgcagc acctgatcac tgagcagaaa gttcggatta aatgcaaaga 1080
gcttgtcaag aagattgcca tctacagaaa tcgattggct atccaactgc cagagaaaat 1140
cctcatctat gagttgtatt cagaggactt atcagacatg cattaccggg taaaggagaa 1200
gattatcaag aagtttgagt gcaacctcct ggtggtgtgt gccaatcaca tcatcctgtg 1260
ccaggagaaa cggctgcagt gcctgtcctt cagcggagtg aaggagcggg agtggcagat 1320
ggagtctctc attcgttaca tcaaggtgat cggtggccct cctggaagag aaggcctctt 1380
agtggggctg aagaagatgt acttgttagt gtattcattc atattgattg taaaggatta 1440
tttttcactc agtactgatg tccttggaaa tcttacctgg aaacatgttt gcaaaaaaca 1500
ttattgggtc tttcatcttt tttcttggta ttacatattt gttcaataaa aata 1554

<210> 39
<211> 2320
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1494955CB1

<400> 39
gggcgcccgc gtactcacta gctgaggtgg cagtggttcc accaacatgg agctctcgca 60
gatgtcggag ctcatggggc tgtcggtgtt gcttgggctg ctggccctga tggcgacggc 120
ggcggtagcg cgggggtggc tgcgcgcggg ggaggagagg agcggccggc ccgcctgcca 180
aaaagcaaat ggatttccac ctgacaaatc ttcgggatcc aagaagcaga aacaatatca 240
gcggattcgg aaggagaagc ctcaacaaca caacttcacc caccgcctcc tggctgcagc 300
tctgaagagc cacagcggga acatatcttg catggacttt agcagcaatg gcaaatacct 360
ggctacctgt gcagatgatc gcaccatccg catctggagc accaaggact tcctgcagcg 420
agagcaccgc agcatgagag ccaacgtgga gctggaccac gccaccctgg tgcgcttcag 480
ccctgactgc agagccttca tcgtctggct ggccaacggg gacaccctcc gtgtcttcaa 540
gatgaccaag cgggaggatg ggggctacac cttcacagcc accccagagg acttccctaa 600
aaagcacaag gcgcctgtca tcgacattgg cattgctaac acagggaagt ttatcatgac 660
tgcctccagt gacaccactg tcctcatctg gagcctgaag ggtcaagtgc tgtctaccat 720

caacaccaac cagatgaaca acacacacgc tgctgtatct ccctgtggca gatttgtagc 780
ctcgtgtggc ttcaccccag atgtgaaggt ttgggaagtc tgctttggaa agaaggggga 840
gttccaggag gtggtgcgag ccttcgaact aaagggccac tccgcggctg tgcactcgtt 900
tgctttctcc aacgactcac ggaggatggc ttctgtctcc aaggatggta catggaaact 960
gtgggacaca gatgtggaat acaagaagaa gcaggacccc tacttgctga agacaggccg 1020
ctttgaagag gcggcgggtg ccgcgccgtg ccgcctggcc ctctcccccа acgcccaggt 1080
cttggccttg gccagtggca gtagtattca tctctacaat acccggcggg gcgagaagga 1140
ggagtgcttt gagcgggtcc atggcgagtg tatcgccaac ttgtcctttg acatcactgg 1200
ccgctttctg gcctcctgtg gggaccgggc ggtgcggctg tttcacaaca ctcctggcca 1260
ccgagccatg gtggaggaga tgcagggcca cctgaagcgg gcctccaacg agagcacccg 1320
ccagaggctg cagcagcagc tgacccaggc ccaagagacc ctgaagagcc tgggtgccct 1380
gaagaagtga ctctgggagg gcccggcgca gaggattgag gaggagggat ctggcctcct 1440
catggcgctg ctgccatctt tcctcccagg tggaagcctt tcagaaggag tctcctggtt 1500
ttcttactgg tggccctgct tcttcccatt gaaactactc ttgtctactt aggtctctct 1560
cttcttgctg gctgtgactc ctccctgact agtggccaag gtgcttttct tcctcccagg 1620
cccagtgggt ggaatctgtc cccacctggc actgaggaga atggtagaga ggagaggaga 1680
gagagagaga atgtgatttt tggccttgtg gcagcacatc ctcacaccca aagaagtttg 1740
taaatgttcc agaacaacct agagaacacc tgagtactaa gcagcagttt tgcaaggatg 1800
ggagactggg atagcttccc atcacagaac tgtgttccat caaaaagaca ctaagggatt 1860
tccttctggg cctcagttct atttgtaaga tggagaataa tcctctctgt gaactccttg 1920
caaagatgat atgaggctaa gagaatatca agtccccagg tctggaagaa aagtagaaaa 1980
gagtagtact attgtccaat gtcatgaaag tggtaaaagt gggaaccagt gtgctttgaa 2040
accaaattag aaacacattc cttgggaagg caaagttttc tgggacttga tcatacattt 2100
tatatggttg ggacttctct cttcgggaga tgatatcttg tttaaggaga cctcttttca 2160
gttcatcaag ttcatcagat atttgagtgc ccactctgtg cccaaataaa tatgagctgg 2220
ggattaaata cgaataagac atggtttctg ccatcaaaga tggctggtgg gagagagaga 2280
tacaccctta ttaagtgctt tgtgttagtt tattcatagc 2320

<210> 40
<211> 879
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1508161CB1

<400> 40
gaagaatttg ttcaggcgtt cgtgcagaag gacccttтgg ataatgacaa gagttgctac 60
agtgaacgga agaaaacacg aaacttagaa gcttacgtgg aatggtttaa tcgcctcagc 120
tacttggttg ctacagaaat ctgtatgcct gttaagaaaa aacaccgagc aagaatgatt 180
gagtatttca ttgacgtagc tcgggagtgt tttaacattg gcaacttcaa ctccttgatg 240
gcgataatct ctggtatgaa tatgagccca gtctctcgac taaaaaaaac ttgggccaaa 300
gtgaagactg caaaatttga cattcttgag catcagatgg acccttcaag caatttctat 360
aattatcgaa cagctcttcg tggggcagca caaaggtctt taactgctca tagtagtaga 420
gaaaagattg tgataccatt cttcagtctc ttaatcaaag atatttattt cctcaatgag 480
ggttgtgcca accgccttcc caatggccat gtcaattttg agaaattttg ggaactggcc 540
aaacaagtga gtgaatttat gacatggaaa caagtggagt gtccatttga gagggaccgg 600
aagatcttgc agtatctgct cacagtacca gtcttcagtg aagatgctct ctacttggct 660
tcttatgaga gtgaaggacc tgaaaatcat atagagaaag acagatggaa gtctttaagg 720
tcgagcctct taggcagagt ttaacacatg ggagctgcct gcctgctgct gctgctgctt 780
cctgcagatc atggaggggc tggcctttgt tttctggcat ctcgtaccac gaacactcat 840
gaagaccctg cagtcattgg agcacccggg tcagcaaag 879

<210> 41
<211> 2248
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1811877CB1

<400> 41
ggaggaccag gaggacatca ctgcctttga cctcagccct gacaacgagg tgctggtgac 60
agccagtcgg gcattgctgc tggctcagtg ggcctggcaa gagggcagcg ttacccgcct 120
gtggaaggcg atacacacgg cccccgtggc caccatggcc ttcgacccca cctccactct 180
gctagccaca ggtggctgtg atggggccgt gcgcgtctgg gacatcgtgc ggcactacgg 240
gacacaccac ttccgaggct cgcccggtgt cgtgcaccta gtggccttcc acccggaccc 300
tacacgcctg ctgctcttct cctcggccac ggatgccgcc atccgcgtgt ggtcactgca 360
ggaccggtca tgcctggctg tgctgactgc ccactacagc gccgtcacct cactggcctt 420
cagcgccgac ggccacacca tgctcagctc cggccgtgac aagatatgta tcatctggga 480
ccttcagagc tgccaggcca cgaggaccgt gcctgtgttt gagagcgtgg aggctgctgt 540
gctgttgcca gaggagccag tgtcccagct gggtgtgaag tccccagggc tgtactttct 600
gacagctggc gaccaaggca ctctgcgcgt gtgggaggca gcttctgggc agtgtgtgta 660
cacgcaggcc cagccgccgg gccctgggca ggagctgacc cactgcaccc tggcacacac 720
cgccggcgtg gtcctcaccg ccaccgccga ccacaacctg ttgctctacg aggctcgctc 780
cctgcggctg cagaaacagt tcgctggcta cagtgaggag gttttggatg tccggtttct 840
tgggcccgag gactcccacg ttgtcgtggc ctccaatagc ccctgcctaa aagtgtttga 900
gctgcagacg tcagcctgcc agatcctcca cggccacacg gatatcgtcc tggccctgga 960
tgtgttccgg aaggggtggc tctttgccag ctgtgccaag gatcagagcg tccgtatctg 1020
gagaatgaac aaggctggcc aggtgatgtg cgtggctcag ggttccggtc acacacacag 1080
tgtgggcacc gtctgctgct ctaggctgaa ggagtccttc ctggtgacag gcagccagga 1140
ctgcactgtg aagctgtggc ctcttcccaa agccttgctg tccaagaaca cagccccaga 1200
caacggccct atcctcctgc aggcccagac cactcagcgc tgccatgata aggacatcaa 1260
cagcgtggct attgccccca acgacaagct gctggccaca ggctcacagg accgcacggc 1320
caagctctgg gccctgccac agtgccagct gctgggtgtc ttctcaggcc accggcgtgg 1380
cctctggtgc gtccagttct ctcccatgga ccaggtgctg gccacggcct cagctgatgg 1440
caccatcaag ctctgggcac tccaggactt cagctgtctc aagacatttg aggggcacga 1500
tgcttctgtg ctgaaggtgg cctttgtgag ccgtggcacg cagctgctgt ccagcggttc 1560
ggatggcctc gtgaagctct ggaccatcaa gaacaacgag tgtgtgcgga cgctggatgc 1620
ccacgaggac aaggtctggg ggctgcactg cagccggctg gacgaccacg ccctcactgg 1680
ggccagtgac tcccgagtca tcctctggaa ggatgtgacc gaggcggagc aggcagagga 1740
gcaggccagg caagaggagc aggtggtcag gcagcaagag ctggacaacc tgctgcatga 1800
gaagcggtac ctgcgggcgc tgggcctggc catctccctg gatcggcccc acaccgtgct 1860
gactgtcatc caggccatcc ggagggaccc tgaggcctgc gagaagctgg aagccaccat 1920
gctccgactg cggcgcgacc agaaagaggc cctgctgcgc ttctgcgtca cgtggaacac 1980
caactcgcgg cactgccacg aggcccaggc cgtgctgggt gtgctcttga ggcgagaggc 2040
ccccgaggag ctgctggcct acgaaggcgt gcgggcagcg cttgaggccc tgctgcccta 2100
cactgagcgg cactttcagc ggctcagcag gaccctccag gccgccgctt tcttggactt 2160
cctgtggcac aacatgaagc tccctgtgcc ggccgccgcc cccacccccc gggaaaccca 2220
taaaggcgca ctgccctaaa aaaaaaaa 2248

<210> 42
<211> 2146
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1848674CB1

<400> 42
gttattggca agttcccctg cagttgtttg ggctgtccct gtggctggtt ctggggtgtg 60
cggccagcca tggagcgctc tgggcccagc gaagtgacag gctcagacgc gtcgggaccg 120
gacccgcagc ttgcggtcac catgggcttc acggggttcg gtaaaaaagc tcgcacattt 180
gacttggaag caatgtttga acaaactcga aggacagctg tggaaagaag tcgcaaaaca 240
ctggaagcaa gagaaaaaga ggaagaaatg aacagagaga aagaattaag aagacaaaat 300
gaagatattg agccaacatc ctcaagatca aatgtggtca gagattgctc caaatcatct 360
tccagggata cgagcagcag tgaaagtgaa cagagttctg actcttctga tgatgagtta 420
attggccctc ctttaccccc taaaatggta ggaaaaccag ttaattttat ggaggaagat 480
atcctcggtc ctttacctcc acctcttaat gaagaagaag aagaagcaga ggaagaagaa 540
gaggaagagg aggaagagga aaatcctgtt cacaagattc ctgactcgca tgagataacg 600
ctgaagcatg gcactaaaac agtgtctgct ttgggtctgg atccctcagg tgcccgtttg 660
gtgacaggag gatatgacta tgatgttaag ttttgggatt ttgctggaat ggatgcttct 720
tttaaggcat ttcgatccct tcagccctgt gagtgccatc agatcaagtc attacagtat 780
agtaacacag gagacatgat tcttgttgta tctggaagct ctcaggccaa ggtgattgac 840
agagatggtt ttgaagtaat ggaatgtata aaaggagacc agtatattgt ggacatggcc 900
aacaccaagg gtcatacagc aatgcttcat actggctcat ggcatcccaa aataaaggga 960
gaatttatga cttgctcaaa tgatgcgact gtgaggacgt gggaagttga aaatccaaag 1020
aagcaaaaaa gtgtgtttaa accacggacg atgcaaggca aaaaagtcat tcccactacg 1080
tgcacatata gtagagatgg aaacctcata gcagctgcct gccagaatgg aagcatacag 1140
atctgggacc gaaatttgac tgttcatcct aagttccact ataaacaggc tcatgactcg 1200
ggcacagaca cttcttgcgt gacttttcc tatgatggta atgtccttgc ctctcgtgga 1260
ggtgacgatt cattaaaatt atgggacatc cgacaattta ataaaccact tttttcagcc 1320
tcgggtcttc ccaccatgtt cccaatgact gactgctgtt tcagtccaga tgataagctc 1380
atagtcactg gtacatctat tcaaagagga tgtggcagcg gcaaacttgt tttctttgag 1440
cgtaggactt tccaaagggt gtatgaaata gacatcacag atgcgagtgt tgttcgctgc 1500
ctgtggcatc caaagctgaa ccagatcatg gttggaactg gaaatggatt ggctaaagtc 1560
tattacgacc ccaacaagag tcagagggga gcaaaattat gtgtggttaa aacccagcgg 1620
aaggcaaaac aagctgagac tctaactcag gactacatca tcacccctca tgccttgcct 1680
atgttccgtg agccccgcca acggagtaca aggaaacagc tggagaagga cagactggat 1740
cccctgaagt cgcataaacc tgaacctcct gtagcaggcc caggtcgtgg tggccgagtt 1800
ggaacccacg ggggcactct ctcttcctat attgtgaaga acattgcttt ggacaagacc 1860
gatgacagta atcctcggga agccattttg cgtcatgcca aagcagcaga agacagccca 1920
tattgggttt ctccagcata ttccaagact cagcccaaaa ccatgtttgc ccaagttgaa 1980
tctgatgatg aggaagcaaa gaatgagcca gaatggaaaa aacgtaaaat ttgaagaatc 2040
tcatttgaga gctgtttgca tgagtgggag gggtatggga caggtttggg ttttttttt 2100
atgctcatga aattaaaaat tcatttttat gaaaaaaaaa aaaaaa 2146

<210> 43
<211> 714
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2012970CB1

<400> 43
ggatggcgag cagcggaggc gaggcggtga cgagagcagc ggctccgcca ttggacgagg 60

aggcctgagg gacgggccag cggtgcacaa gaagagaccg aggcgggtgg ccccgagaga 120
gccagggcca tggaggccaa catgccgaag cggaaggagc ctggcaggtc tctccgtatc 180
aaagtcatct ccatgggcaa cgccgaagtg gggaaaagct gtattataaa gcgatactgt 240
gagaaaagat tcgtgtctaa atacctggca acaattggaa ttgactatgg agtcacaaag 300
gtacacgtca gagacagaga aatcaaagtt aacatctttg atatggctgg acatcccttc 360
ttctatgagg ttcgaaatga gttttacaag gacacacagg gtgtgatact ggtctatgat 420
gttgggcaga aagactcctt tgacgccctt gatgcgtggc tggcagaaat gaagcaagag 480
cttggacctc atggaaacat ggaaaatatt atatttgtag tttgtgccaa caagattgat 540
tgtaccaaac atcgctgtgt agatgaaagt gaaggacgtc tttgggctga aagcaaaggg 600
ttcctgtact ttgaaacttc agcacaaact ggagaaggca ttaatgagat gttccagata 660
catcttggat agaactaatg gataaattag tctgtttaaa aaagaaaaaa aaaa 714

<210> 44
<211> 1779
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2254315CB1

<400> 44
caggaggaag atggcggcgt ccgcagctgc cgctgagctc caggcttctg ggggtccgcg 60
gcacccagtg tgtctgttgg tgttgggaat ggcgggatcc gggaaaacca cttttgtaca 120
gaggctcaca ggacacctgc atgcccaagg cactccaccg tatgtgatca acctggatcc 180
agcagtacat gaagttccct ttcctgccaa tattgatatt cgtgatactg taaagtataa 240
agaagtaatg aaacaatatg gacttggacc caatggcggc atagtgacct cactcaatct 300
ctttgctacc agatttgatc aggtgatgaa atttattgag aaggcccaga acatgtccaa 360
atatgtgttg attgacacac ctggacagat tgaggtattc acctggtcag cttctgggac 420
aattatcact gaagcccttg catcctcatt tccaacagtt gtcatctatg taatggacac 480
atcgagaagt accaacccag tgaccttcat gtccaacatg ctctatgcct gcagcatctt 540
atacaaaacc aagctgcctt tcattgtggt catgaataaa actgacatca ttgaccacag 600
ctttgcagtg gaatggatgc aggattttga ggctttccaa gatgccttga atcaagagac 660
tacatacgtc agtaacctga ctcgttcaat gagcctggtg ttagatgagt tttacagctc 720
actcagggtg gtgggtgtct ctgctgttct gggtactgga ttagatgaac tctttgtgca 780
agttaccagt gctgccgaag aatatgaaag ggagtatcgt cctgaatatg aacgtctgaa 840
aaaatcactg gccaacgcag agagccaaca gcagagagaa caactggaac gccttcgaaa 900
agatatgggt tctgtagcct tggatgcagg gactgccaaa gacagcttat ctcctgtgct 960
gcacccttct gatttgatcc tgactcgagg aaccttggat gaagaggatg aggaagcaga 1020
cagcgatact gatgacattg accacagagt tacagaggaa agccatgaag agccagcatt 1080
ccagaatttt atgcaagaat cgatggcaca atactggaag agaaacaata aataggagac 1140
tttagcacac ttcacttgtt tctagaagtc cagaattttg gacctccacg tgaaagaact 1200
gttcttacct ctgaactggg ggctcccata agggataatt ttcctcagag tagcaaagtt 1260
tctcttatta gagaaatctt gtgactcaga tgaagtcagg gatagaagac ccttggacct 1320
ggcaggttaa tgctgattat tccttggcct ttcccttgta tttatgcaag gaaggatata 1380
ctgagctgat actcttccaa gcctacaact tcaagtttta tcatttgaac tcaagtactt 1440
ttgctgctga ggaatggaat caaaagaacg tagtctcctg gtgaccacct cagatctcta 1500
ttattaggct agatgtatag cctctactcc cccagcttct tgctcttgac cctgcactgt 1560
aagttgccct tctattagca gccaaggaaa agggaaacat gagcttatcc agaacggtgg 1620
cagagtctcc ttggcaatca accaacgttg ctatgaaata tgcctcacac tgtatagctc 1680
attataggac gtcaggtttg ttgaaaaaag tgggcaagac atgattaatg aatcagaatc 1740
ctgtttcatt ggtgacttgg ataaagactt tttaatttt 1779

<210> 45
<211> 2234
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2415545CB1

<400> 45
ccccttctga aaaatggttt cacccgctcc ttctctagaa cgggtcgggc cgctaccact 60
gtccggcccg gaggggaact gttttctccg gaagtgacaa cacgctgact aggaaaagga 120
ggaggcgggg cagtggggcc ttcggcggcg actatggaag gagccggcta cagggtggtg 180
tttgagaagg gcggagtgta cctgcacacc agcgctaaga agtatcagga ccgagactct 240
ctcatcgctg gtgtcatccg tgtcgtggaa aaggacaatg acgtcctcct gcactgggct 300
cctgtagagg aggctggaga ttccacccaa atcctcttct ccaagaagga ctccagtggg 360
ggtgactcat gtgcttctga ggaggaacca acctttgacc ccggctatga acctgactgg 420
gctgtcatca gcactgtgcg gccacagccc tgccactcag agcccacgag aggtgcagag 480
cccagctgcc cccagggctc ctgggccttc tcagtgagtc tgggggagct aaagtccatc 540
cgccgctcca agccaggcct cagctgggcc tacctggttc tggtgaccca ggctggaggt 600
tccctgcccg cactgcactt ccaccgcggg ggcacccgcg ccctgctccg cgtcctcagc 660
cgctacctgc tgttggccag ctccccgcag gactcccgcc tctaccttgt cttcccccac 720
gactcctctg ctctctccaa ctccttccac cacctgcagc tctttgacca ggacagctcc 780
aatgtggtgt cacgcttcct ccaggatccc tactccacca ccttcagcag cttctcccga 840
gtgaccaact tcttccgggg tgccctgcag ccacagcctg agggagccgc ctccgacctt 900
cccccgccac ccgacgatga gcccgagcct ggattcgagg tcatttcctg tgtggagctg 960
gggcctcggc caaccgtgga gcgggcccct ccagttacag aggaggagtg ggcacgccac 1020
gtgggccctg aaggtcgcct gcagcaggtc cctgagctga agaaccggat cttctcgggg 1080
ggtctgagcc ccagcctgcg gcgcgaggcc tggaagttcc tcctagggta cctcagctgg 1140
gaaggcacag ctgaggagca caaggcccac atacgcaaga aaacggatga gtatttccgc 1200
atgaagctgc agtggaaatc tgtgagccct gagcaggagc ggagaaactc acttctgcat 1260
ggataccgca gcctcatcga aagggatgtg agccgcactg acaggaccaa caagttctac 1320
gagggtcccg agaacccggg gctgggcctg ctgaacgata tcctcctcac ctactgcatg 1380
tatcacttcg acctcggcta cgtccagggc atgagtgatc ttctctcccc gatcctctac 1440
gtcattcaga acgaggtgga tgctttctgg tgtttctgtg gcttcatgga gctcgtgcaa 1500
gggaactttg aagagagcca ggagaccatg aagcggcaac tcgggcgact gctgctgctc 1560
ctgagggtgc tggacccccc gctctgcgac ttcctggatt cccaggactc cggctctctc 1620
tgcttctgtt tccggtggct gctcatctgg ttcaagaggg aattcccctt cccggatgtc 1680
cttcggctgt gggaggtgct gtggacaggg ctccctggcc ccaatctgca cctgctggtg 1740
gcctgcgcca tcctggacat ggagagggac accctcatgc tgtccggctt cggctccaat 1800
gagatcctca agcacatcaa cgagctgact atgaagctga gcgtggagga cgtgctgacc 1860
cgcgccgagg ccctgcaccg ccagctaacc gcctgcaccc gagctgcccc acaacgtgca 1920
ggagatcctg gggctggccc cgccacgcag agccccacag cccctcgccc accgcctccc 1980
cgctgcctct gtacgcccac ccgggccccg cccaccccgc cgccctccac ggacacagcc 2040
ccgcagcccg acagcagcct ggagatcctg cccgaggagg aggacgaggg cgccgactcc 2100
taaccccgcc aggcagcctc gttctgcaca ggcactttag cccgagccag gcacacctgc 2160
gaggggggcag gtgtgctccg ccgccctgct gataagctgg cttcattaaa ctgacacttc 2220
tcaaaaaaaa aaaa 2234

<210> 46
<211> 3150
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> 96, 97, 99, 3070-3072, 3074, 3078, 3080-3082, 3085-3087, 3091,
<222> 3099, 3100, 3103, 3107, 3110-3112, 3114, 3115, 3121, 3123, 3125,
<222> 3128, 3136, 3138, 3140, 3141, 3143, 3145, 3147, 3149
<223> Incyte ID No: a or g or c or t, unknown, or other

<220>
<221> misc_feature
<223> Incyte ID No: 2707969CB1

<400> 46
acacaggagc aatgcaaaat ttgataaagc atttttctgt cagatcagct gagccctact 60
gcccttcctc tcaagattcc tggagaccca gatgtnngna tctttcattg acaacaaaat 120
aatgtgtcat gatgatgatg ataaagaccc tgtactccgg gtatttgatt cccgagttga 180
caagatcagg ctgttgaatg ttcggacacc tactctccgt acatccatgt accagaagtg 240
taccactgtg gatgaagcag agaaagcaat tgagctgcgt ctggcaaaaa ttgaccatac 300
tgcaattcac ccacatttac ttgacatgaa gattggacaa gggaaatatg agccgggctt 360
cttccctaag ctgcagtctg atgtactttc cactgggcca gccagcaaca agtggacgaa 420
aaggaatgcc cctgcccagt ggaggcggaa agatcggcag aagcagcaca cagaacacct 480
gcgtttagat aatgaccaga gggagaagta catccaggaa gccaggacta tgggcagcac 540
tatccgccag cccaaactgt ccaacctctc tccatcagtg attgcccaga ccaattggaa 600
gtttgtagag ggcctgctga aggaatgccg caataagacc aagaggatgc tggtggaaaa 660
gatgggccga gaagctgtgg agctagggca tggggaggtg aacatcacag gggtggaaga 720
gaacaccctg attgccagcc tttgtgatct cctggaaagg atctggagtc atggactaca 780
agtgaaacag gggaaatcag ccttatggtc ccacctgtta cattatcagg acaaccggca 840
gagaaaactc acatcaggaa gcctcagtac ctcaggaata cttcttgatt cagaacgtag 900
gaagtctgat gccagctcac tcatgcctcc cctgaggatc tccctgattc aggatatgag 960
gcacatccag aacatcgggg aaatcaagac tgatgtggga aaggccagag catgggtgcg 1020
actgtccatg gaaaaaaagt tactttccag acacctgaag cagctcctct cagaccatga 1080
gctcaccaaa aagttatata agcgctatgc cttcctgcgc tgtgatgacg agaaggagca 1140
gttcctctat cacctcctgt ctttcaatgc cgtcgattac ttttgcttca ccaatgtctt 1200
cacaactatc ctgatcccgt accacattct gatcgtacca agcaagaagc tgggggctc 1260
catgttcact gccaacccat ggatctgtat atcaggagaa ttgggtgaga cacagatcat 1320
gcagattccc aggaatgtgc tagagatgac cttcgagtgc cagaacttgg ggaagcttac 1380
tactgtccag attggccatg ataactctgg gctgtatgcc aaatggctgg tggagtatgt 1440
gatggtcagg aatgagatca caggacatac ctacaagttc ccgtgtggcc ggtggttagg 1500
gaagggcatg gatgatggaa gcctggagcg gatcctagtt ggggagctgc tcacatccca 1560
gcctgaggtg gatgagaggc catgccggac cccgccgctg cagcagtccc ccagtgtcat 1620
ccggaggctt gttaccatct cacccaacaa caagcccaag ctgaacactg ggcagatcca 1680
ggagtccatc ggggaggcag tcaatggcat tgtgaagcac ttccataagc ctgagaaaga 1740
gcgaggcagt ctgacgctgt tgctctgtgg agagtgtggc cttgtctcgg ccttggaaca 1800
ggctttccag catggattta aatcgccccg gctcttcaaa aatgtcttca tttgggattt 1860
cctggaaaaa gcacaaacct attatgagac attagagaag aatgaagtag tccctgagga 1920
aaactggcat acaagagccc ggaacttctg ccgatttgtc actgcaatca acaatactcc 1980
ccggaacatc ggcaaggatg gcaagtttca gatgctggtg tgcttgggag ccagagatca 2040
cctcctacac cactggattg ccctgctggc tgactgcccc atcactgcac acatgtatga 2100
ggatgtggca ctgatcaaag accatacact tgtcaattcc ttgattcgtg tgctgcagac 2160
attgcaggag ttcaacatca cgctggagac gtcccttgtc aagggcatcg acatctgacc 2220
tcccagcacc agccagcagc aggactgaga aagactcacc ctgcagctct gacctttttt 2280
cccaaaggga cttaagcgat tgtgcaggag taggagacaa aatgtacact cactgtaaaa 2340
agagaactag aggatttttg gaataaataa tctattttag agtttatttg ctgatttgct 2400
ttttacacac tttcatgtga aagagtgata gggagaggga gcgaggctgg tgccgcttat 2460
tttgaagctg gtgccctccc tcgccgtggc cacatgctgg aagcctgagg cctccctgga 2520
ctgagcctgt ggcactgcgt gcgggacagt tatgtttcct tgccccgtcg cattaatgag 2580

gcccttccac atcattttta aactaatgtt tttctatatt aacattatta tggatatttg 2640
gctttcatag gccacacaca ggtgtgctgc gcgggaagcc ccatgctcca atcaaaggga 2700
tttttagtag tgcctctaag caagcaccga tgagtcagtc ccacgtattt tctttttgt 2760
cagtattgtt tgggaaggag acatgccggg atgtgtcatc gtgccaaata ccacatttcc 2820
tgttggcaca gtttcacaga agtaaacata agcatgtttt aacaggtttt tcttttcttt 2880
tttctttttt aaaatgtttt atttatttaa cccgccattg tgtgttttta agtattttct 2940
ttttttaagg aaaggaaaag cttgtcacaa tctaactggc tatgttatta ttattaaatt 3000
tatgttttgc aacttagaaa ccagctacag tatggcccac ttaataaaac acctgaaaca 3060
aaaaaaaagn nngngggngn nngtnnngag naggagggnn ggnggggnggn nngnngggag 3120
ntnanttntg gggtgngngn ngngnangnt 3150

<210> 47
<211> 1806
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2817769CB1

<400> 47
gtctgcgcgc aggtgccgct cggcgcccgg gccgcccgtt ccgcggctgt cgccgccgtc 60
gtgcgtgccg ctcggcggag gggacgggcc tgcgttctct cctccttcct ccccgcctcc 120
agctgccggc aggacctttc tctcgctgcc gctgggaccc cgtgtcatcg cccaggccga 180
gcacgatgcc ccctaaaaag ggaggtgatg gaattaaacc acccccaatc attggaagat 240
ttggaacctc actgaaaatt ggtattgttg gattgccaaa tgttgggaaa tctactttct 300
tcaatgtgtt aaccaatagt caggcttcag cagaaaactt cccgttctgc actattgatc 360
ctaatgagag cagagtacct gtgccagatg aaaggtttga ctttctttgt caataccaca 420
aaccagcaag caaaattcct gcctttctaa atgtggtgga tattgctggc cttgtgaaag 480
gagctcacaa tgggcagggc ctggggaatg ctttttttatc tcatattagt gcctgtgatg 540
gcatctttca tctaacacgt gcttttgaag atgatgatat cacgcacgtt gaaggaagtg 600
tagatcctat tcgagatata gaaataatac atgaagagct tcagcttaaa gatgaggaaa 660
tgattgggcc cattatagat aaactagaaa aggtggctgt gagaggagga gataaaaaac 720
taaaacctga atatgatata atgtgcaaag taaaatcctg ggttatagat caaaagaaac 780
ctgttcgctt ctatcatgat tggaatgaca aagagattga agtgttgaat aaacacttat 840
ttttgacttc aaaaccaatg gtctacttgg ttaatctttc tgaaaaagac tacattagaa 900
agaaaaacaa atggttgata aaaattaaag agtgggtgga caagtatgac ccaggtgctt 960
tggtcattcc ttttagtggg gccttggaac tcaagttgca agaattgagt gctgaggaga 1020
gacagaagta tctggaagcg aacatgacac aaagtgcttt gccaaagatc attaaggctg 1080
ggtttgcagc actccaacta gaatactttt tcactgcagg cccagatgaa gtgcgtgcat 1140
ggaccatcag gaaagggact aaggctcctc aggctgcagg aaagattcac acagattttg 1200
aaaagggatt cattatggct gaagtaatga aatacgaaga ttttaaagag gaaggttctg 1260
aaaatgcagt caaggctgct ggaaagtaca gacaacaagg cagaaattat attgttgaag 1320
atggagatat tatcttcttc aaatttaaca cacctcaaca accgaagaag aaataaaatt 1380
tagttattgc tcagataaac atacaacttc caaaaggcat ctgattttta aaaaattaaa 1440
atttctgaaa accaatgcga caaataaagt tggggagatg ggaatctttg acaaacaaat 1500
tatttttatt tgttttaaaa ttaaaatact gtgtaccccc ccccactcca tgaaatgcag 1560
gttcactaaa tgtgaacagc tttgcttttc acgtgattaa gaccctactc caaattgtag 1620
aagcttttca ggaaccatat tactctcatg atacttcatt aatctccatc atgtatgcca 1680
agcctgacac atttgacagt gaggacaatg tggcttgctc ctttttgaat ctacagataa 1740
tgcatgtttt acagtactcc agatgtctac actcaataaa acatttgaca aaaccaaaaa 1800
aaaaaa 1806

<210> 48
<211> 2880
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2917557CB1

<400> 48
gaggaggagg aggaggaaga agaggaagaa gaagatgaag aaagtgaaga agaggaggaa 60
gaggagggag aaagtgaagg cagtgaaggt gatgaggaag atgaaaaggt gtcagatgag 120
aaggattcag ggaagacatt agataaaaag ccaagtaaag aaatgagctc agattctgaa 180
tatgactctg atgatgatcg gactaaagaa gaaagggctt atgacaaagc aaaacggagg 240
attgagaaac ggcgacttga acatagtaaa aatgtaaaca ccgaaaagct aagagcccct 300
attatctgcg tacttgggca tgtggacaca gggaagacaa aaattctaga taagctccgt 360
cacacacatg tacaagatgg tgaagcaggt ggtatcacac aacaaattgg ggccaccaat 420
gttcctcttg aagctattaa tgaacagact aagatgatta aaaattttga tagagagaat 480
gtacggattc caggaatgct aattattgat actcctgggc atgaatcttt cagtaatctg 540
agaaatagag gaagctctct ttgtgacatt gccattttag ttgttgatat tatgcatggt 600
ttggagcccc agacaattga gtctatcaac cttctcaaat ctaaaaaatg tcccttcatt 660
gttgcactca ataagattga taggttatat gattggaaaa agagtcctga ctctgatgtg 720
gctgctactt taaagaagca gaaaaagaat acaaaagatg aatttgagga gcgagcaaag 780
gctattattg tagaatttgc acagcagggt ttgaatgctg ctttgtttta tgagaataaa 840
gatccccgca cttttgtgtc tttggtacct acctctgcac atactggtga tggcatggga 900
agtctgatct accttcttgt agagttaact cagaccatgt tgagcaagag acttgcacac 960
tgtgaagagc tgagagcaca ggtgatggag gttaaagctc tcccggggat gggcaccact 1020
atagatgtca tcttgatcaa tgggcgtttg aaggaaggag atacaatcat tgttcctgga 1080
gtagaagggc ccattgtaac tcagattcga ggcctcctgt tacctcctcc tatgaaggaa 1140
ttacgagtga agaaccagta tgaaaagcat aaagaagtag aagcagctca gggggtaaag 1200
attcttggaa aagacctgga gaaaacattg gctggtttac ccctccttgt ggcttataaa 1260
gaagatgaaa tccctgttct taaagatgaa ttgatccatg agttaaagca gacactaaat 1320
gctatcaaat tagaagaaaa aggagtctat gtccaggcat ctacactggg ttctttggaa 1380
gctctactgg aatttctgaa aacatcagaa gtgccctatg caggaattaa cattggccca 1440
gtgcataaaa aagatgttat gaaggcttca gtgatgttgg aacatgaccc tcagtatgca 1500
gtaattttgg ccttcgatgt gagaattgaa cgagatgcac aagaaatggc tgatagttta 1560
ggagttagaa tttttagtgc agaaattatt tatcatttat ttgatgcctt tacaaaatat 1620
agacaagact acaagaaaca gaaacaagaa gaatttaagc acatagcagt atttccctgc 1680
aagataaaaa tcctccctca gtacattttt aattctcgag atccgatagt gatgggggtg 1740
acggtggaag caggtcaggt gaaacagggg acacccatgt gtgtcccaag caaaaatttt 1800
gttgacatcg gaatagtaac aagtattgaa ataaaccata aacaagtgga tgttgcaaaa 1860
aaaggacaag aagtttgtgt aaaaatagaa cctatccctg gtgagtcacc caaaatgttt 1920
ggaagacatt ttgaagctac agatattctt gttagtaaga tcagccggca gtccattgat 1980
gcactcaaag actggttcag agatgaaatg cagaagagtg actggcagct tattgtggag 2040
ctgaagaaag tatttgaaat catctaattt tttcacatgg agcaggaact ggagtaaatg 2100
caatactgtg ttgtaatatc ccaacaaaaa tcagacaaaa aatggaacag acgtatttgg 2160
acactgatgg acttaagtat ggaaggaaga aaaataggtg tataaaatgt tttccatgag 2220
aaaccaagaa acttacactg gtttgacagt ggtcagttac atgtccccac agttccaatg 2280
tgcctgttca ctcacctctc ccttccccaa cccttctcta cttggctgct gttttaaagt 2340
ttgcccttcc ccaaatttgg atttttatta cagatctaaa gctctttcga ttttatactg 2400
attaaatcag tactgcagta tttgattaac caagcttctg cagattttgt gattcttggg 2460
actttttga cgtaagaaat acttctttat ttatgcatat tcttcccaca gtgatttttc 2520
cagcattctt ctgccatatg cctttagggc ttttataaaa tagaaaatta ggcattctga 2580
tatttcttta gctgctttgt gtgaaaccat ggtgtaaaag cacagctggc tgctttttac 2640
tgcttgtgta gtcacgagtc cattgtaatc atcacaattc taaaccaaac taccaataaa 2700

gaaaacagac atccaccagt aagcaagctc tgttaggctt ccatgttagt gtagcttctc 2760
tcccacaagt tgtcctccta ggacaagaat tatcttacaa actaaactat catcacacta 2820
ccttgtatgc cagcacctgg taacagtaga gatttttata cattaatctt gatctgtttt 2880

<210> 49
<211> 1109
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3421335CB1

<400> 49
cccacgcgtc cgctcgctct tgggtcatgc ctggccagca gaaagcagct ccatagggga 60
ggagagccac gcaggatctc acagctgcag tctaatagta acacagagga ttcagcagtg 120
gccaccatgg gttctgtgaa ttccagaggt cacaaggcgg aagcccaggt ggtgatgatg 180
ggcctggact cggcgggcaa gaccacgctc ctttacaagc tgaagggcca ccagctggtg 240
gagaccctgc ccactgttgg tttcaacgtg gagcctctga aagctcctgg gcacgtgtca 300
ctgactctct gggacgttgg ggggcaggcc ccgctcagag ccagctggaa ggactatctg 360
gaaggcacag atatcctcgt gtacgtgctg gacagcacag atgaagcccg cttacccgag 420
tcggcggctg agctcacaga agtcctgaac gaccccaaca tggctggcgt ccccttcttg 480
gtgctggcca acaagcagga ggcacctgat gcacttccgc tgcttaagat cagaaacagg 540
ctgagtctag agagattcca ggaccactgc tgggagctcc ggggctgcag tgccctcact 600
ggggaggggc tgcccgaggc cctgcagagc ctgtggagcc tcctgaaatc tcgcagctgc 660
atgtgtctgc aggcgagagc ccatggggct gagcgcggag acagcaagag atcttgatcc 720
agacagagca gcatatcttt gctcatacaa actagaagaa ccagctgatc cttgagaaat 780
ttacgcttag tctatcaaac aagaaatgct ggcttggccc ggtggctcat gcctgtaatc 840
ccagcactgt gggagaccac ggtgggggaa tcccttgagc ccaggagttg gagagcaaca 900
tcacaacacc ccatttctac taataatcaa aaaattggcc gggcatggtg gcatgtgcct 960
gtagtcccag ctacttggga ggctgaggca ggagaatcgc ttgagcccaa gaggtagagg 1020
ttgcagtgag ccaagatcgc gccactgcac tccagtctgg gcaacagagt gagaccctgt 1080
tctagtggtg ataataataa tgatgtagt 1109

<210> 50
<211> 2407
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 605761CB1

<400> 50
ctttcgctgg cgccattacc tgagttctcc tccagcgttt ccgcaccctc tccgattagc 60
ggtcccagga gtttccaagg taaccgcgca gtagggcgga tctcattagg cggaaagcga 120
aacccggaag tgacgctctt accgggtgtc agcagcgaga gggttcgaag atggcggcgc 180
gcaagggtcg gcgtcgcacg tgtgaaaccg gggaacccat ggaagccgag tccggcgaca 240
caagttccga gggcccggcc caggtctacc tgcccggccg ggggccgccg ctacgcgaag 300
gggaggagct ggtcatggac gaggaggcct atgtgctcta ccaccgagcg cagactggcg 360
ccccctgtct cagctttgac atagtccggg atcacctggg agacaaccgg acagagcttc 420
ctcttacact ttacttgtgt gctgggaccc aggctgagag cgcccagagc aacagactga 480
tgatgcttcg gatgcacaat ctgcatggga caaagccccc accctcagag ggcagtgatg 540

aagaagaaga ggaggaagat gaagaggatg aagaagagcg gaaacctcag ctggagctgg 600
ccatggtgcc ccactatggt ggcatcaacc gagttcgggt gtcatggctg ggtgaagagc 660
ctgtggctgg ggtgtggtca gagaagggcc aggtggaggt gtttgcgctg cggcggcttc 720
tgcaggtggt ggaggagccc caggccctgg cagccttcct ccgggatgag caggcccaaa 780
tgaagcccat cttctccttc gctggacaca tgggcgaggg ctttgccctt gactggtccc 840
cccgggtgac cggtcgcctg ctgaccggtg actgtcaaaa gaacatccac ctctggacac 900
ctacggacgg cggctcctgg cacgtggacc agcggccatt cgtgggccac acacgctctg 960
tggaggacct gcagtggtca ccgactgaga acacggtgtt tgcctcctgc tcagctgacg 1020
cctccatccg catctgggac atccgggcag cccccagcaa ggcctgcatg ctcaccacag 1080
ccaccgccca tgatggggac gtcaatgtca tcagctggag ccgccgggag cccttcctgc 1140
tcagtggcgg ggatgatggg gccctcaaga tctgggacct tcggcagttc aagtctggtt 1200
ccccagtggc caccttcaag cagcacgtgg cccccgtgac ctccgtcgag tggcaccccc 1260
aggacagcgg ggtctttgca gcctcgggtg cagaccacca gatcacacag tgggacctgg 1320
cagtggagcg ggaccctgag gcgggcgacg tggaggccga ccccggactg gccgacctcc 1380
cgcagcagct gctgttcgtg caccagggcg agaccgagct gaaggagctg cactggcacc 1440
cgcagtgccc agggctcctg gtcagcacgg cgctgtcagg cttcaccatc ttccgcacca 1500
tcagcgtctg aggcgtccca ctggctctga tcttgcttcc tgcttggaaa ctgaagtcga 1560
attgggctcc cctggaaggg gttcattcag gtctgttgac tgagactggc cggcctgtgg 1620
gctgccgtga tggattctgt ttgacgtatt gttctctaga aggcctggct ctgatccagt 1680
gacccctctc accaaagaac tcggtttaac cagggctctg taagaccact cccacccaga 1740
gacttgtgtg gcctggtgtg gcctgtgtgt cggattcctt cctgtcagct gtgacccatt 1800
tgacctgtgt ccccagaacc cagtttttg tttgtttgtt tgagacggag tcttggtctg 1860
tcgcccaggc tggagtgcag tagcacgatc ttggctcact gcaacctccg cctcctgggt 1920
taaagtgatt ctctcagctc agtctcccag gtagctggga ttacaggcat gtgccaccac 1980
accccgttaa tttttgtatt tttagtagag acggggtttc accatgttgg ccaggctggt 2040
ctcaaattct tgatctcaag tgatctgtcc gccccggcct cccagagtgc tgggttggga 2100
ttacaggcgt gagccaccgc gtccggctca ggacccagtt ttggctgctg gttcccagca 2160
ggggactcgg gggatataca gtggctgcac caaattggag gtgtgggttc ctccaacaca 2220
atttgcttct gcccgttgtc ttcctgccag ctgggtttgg ccaggatttc tccgtgtggg 2280
ggctacatgc gaccctctcc cctcctccct gactttagag gctggtgctg tgtcgggagg 2340
aaggtcaggg ctcctgagca gcaataaagg accaggaaga ggcctgaggt gtaaaaaaaa 2400
aaaaaaa 2407

<210> 51
<211> 1158
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 483862CB1

<400> 51
ggaagaccgt cccggatggc ctcggggact gccagtgtgt ggaggtgagc tccgggattg 60
ccggcattcc cgcttctgct ggttgcttca tgctgcaggc tgcggccgtc agccctcgct 120
cgcattggtg gcgctgaggt gccggggcag caagtgacat gtcgtcgggc ctccgcgccg 180
ctgacttccc ccgctggaag cgccacatct cggagcaact gaggcgccgg gaccggctgc 240
agagacaggc gttcgaggag atcatcctgc agtataacaa attgctggaa aagtcagatc 300
ttcattcagt gttggcccag aaactacagg ctgaaaagca tgacgtacca aacaggcacg 360
agataagtcc cggacatgat ggcacatgga atgacaatca gctacaagaa atggcccaac 420
tgaggattaa gcaccaagag gaactgactg aattacacaa gaaacgtggg gagttagctc 480
aactggtgat tgacctgaat aaccaaatgc agcggaagga cagggagatg cagatgaatg 540
aagcaaaaat tgcagaatgt ttgcagacta tctctgacct ggagacggag tgcctagacc 600
tgcgcactaa gctttgtgac cttgaaagag ccaaccagac cctgaaggat gaatatgatg 660

ccctgcagat cacttttact gccttggagg gaaaactgag gaaaactacg gaagagaacc 720
aggagctggt caccagatgg atggctgaga aagcccagga agccaatcgg cttaatgcag 780
agaatgaaaa agactccagg aggcggcaag cccggctgca gaaagagctt gcagaagcag 840
caaaggaacc tctaccagtc gaacaggatg atgacattga ggtcattgtg gatgaaactt 900
ctgatcacac agaagagacc tctcctgtgc gagccatcag cagagcagcc acgtaagtag 960
gcaggtttgg gccagggaaa agacagcttg aggagcaata tgaaggcaca tctgtggaca 1020
tgacaaagaa tgcagtcaga tgcacccaac cccttactcc ttttctggga cacccagcgt 1080
cgaacacacc acagaggtgt ctagtctttc tcagttcacc tctgcttaat gggagggaag 1140
cagaacacgg gtggcttc 1158

<210> 52
<211> 1026
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1256777CB1

<400> 52
ctgcgggcct ctctccgtcg ccatggaaac gaaagcggcc aagtagagct ccgtcctgac 60
gcgccgcctc ccgtgggctc cggccggcta agccgcggcg gacaactatg ctgaaagcca 120
agatcctctt cgtggggcct tgcgagagtg gaaaaactgt tttggccaac tttctgacag 180
aatcttctga catcactgaa tacagcccaa cccaaggagt gaggatccta gaatttgaga 240
acccgcatgt taccagcaac aacaaaggca cgggctgtga attcgagcta tgggactgtg 300
gtggcgatgc taagtttgag tcctgctggc cggccctgat gaaggatgct catggagtgg 360
tgatcgtctt caatgctgac atcccaagcc accggaagga aatggagatg tggtattcct 420
gctttgtcca acagccgtcc ttacaggaca cacagtgtat gctaattgca caccacaaac 480
caggctctgg agatgataaa ggaagcctgt ctttgtcgcc acccttgaac aagctgaagc 540
tggtgcactc aaacctggaa gatgaccctg aggagatccg gatggaattc ataaagtatt 600
taaaaagcat aatcaactcc atgtctgaga gcagagacag ggaggagatg tcaattatga 660
cctagccagc cttcacctgg gactgccaca tccccagtga aatcagcatg tttctcggtg 720
cagatctgaa atcacatcca gctcctgatg ttttcttctc cctctgactg cagaggaagt 780
gttcctacct gcaggaaggc acctgtcaca cagggcgttc actcagacca tctgtgctct 840
gccctgagtt cagttgagaa aatcctatta tcaaatttgg atttcctggc cccagaactt 900
cccaaagacc tgtaaaatgg agggatttac cacctcacat atgtccagtt aaacagtttg 960
tggacttgta accgtcgcag cccaatgata caacagtagt ttaatcacgt gaaaaaaaaa 1020
aaaaaa 1026

<210> 53
<211> 2456
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2198779CB1

<400> 53
gacgagcgac gagatgacgg aggagcggtt ggccaacgca tgccggcagt cggtgtaaac 60
aaggcctcgc gccgctgcgg gtcctgcgac cgctcctggc tgggatttcg attggtcggt 120
cagagaggtt acctggaaat ccaacaccgc ccaacacccc tcccgctccc cagtccgggg 180
acttcgatag gattggagaa ggagttgaca ggaggagccc ccgcacagga cctaagaatg 240

ctgtgaccag aagatgggat cgcggaacag cagcagtgca ggatccgggt ccggagaccc 300
ctccgagggc ttgccccgaa gaggggctgg cctgcgtcgg agtgaggaag aggaagaaga 360
ggatgaagat gtggatctgg cccaggtact ggcctatctc ctccgcagag gccaagtgag 420
gttggtgcag ggaggaggtg cagcaaattt acaattcatt caggccctct tggactcaga 480
ggaagagaat gacagagctt gggatggtcg tcttggggat cgatacaacc cacctgtgga 540
tgctaccccc gacacccggg agctggaatt caatgagatc aagacacaag tggaactggc 600
cacagggcag ctggggctta ggcgggccgc ccagaagcac agctttcctc gaatgttgca 660
ccagagagaa cggggcctct gccatcgggg aagcttctcc cttggagaac agtctcgagt 720
gatatctcac ttcttgccca atgatctggg cttcactgat agctactctc agaaggcttt 780
ctgtggcatc tacagcaaag atggtcaaat attcatgtct gcttgccaag accagacaat 840
ccgactctat gactgccgat atggccgttt ccgtaaattc aagagcatca aggcccgcga 900
tgtaggctgg agcgtcttgg atgtggcctt caccccctgat gggaaccact tcctctactc 960
tagctggtct gattacattc atatctgcaa tatctatggt gagggagata cacacactgc 1020
cctggatctc aggccagatg agcgtcgctt tgctgtcttc tccattgctg tctcctcaga 1080
tggacgagaa gtactaggag gggccaatga tggctgcctg tatgtctttg accgagaaca 1140
gaaccggcgc acccttcaga ttgagtccca tgaggatgat gtgaatgcag tggcctttgc 1200
tgatataagc tcccaaatcc tgttctctgg gggagatgat gccatctgca aagtgtggga 1260
tcgacgcacc atgcgggagg atgaccccaa gcctgtgggt gcactggctg gacaccagga 1320
tggcatcacc ttcattgaca gcaagggtga tgcccggtat ctgatctcca actctaaaga 1380
ccagaccatc aaactctggg atatccgacg cttttccagc cgggaaggca tggaagcttc 1440
acgccaggct gccacacagc aaaactggga ctatcggtgg cagcaagtgc ccaaaaaagg 1500
gtttactctg catccctacc cagcctggcg gaagctgaag ctcccagggg acagctcctt 1560
gatgacctac cggggccacg gagtgctgca caccctcatc cgctgccggt tctcccccat 1620
tcatagcact ggccagcagt tcatctacag tggctgctcc actggcaaag tggttgtgta 1680
cgaccttcta agtggccaca ttgtgaagaa gctgaccaac cacaaggcct gtgtgcgtga 1740
cgtcagttgg caccccttg aagagaagat tgtcagcagt tcgtgggacg ggaacctgcg 1800
tctgtggcag taccgccagg ctgagtactt ccaggatgac atgccagaat ctgaggaatg 1860
tgccagcgcc cctgccccag tgccccaatc ctctacaccc ttttcctcac cccagtagat 1920
ccaacctcca gccccatata gggtgaacct cttgataagc tctctgcctc ctcctccctt 1980
tctcccttgt ggggaatgtt tggaggaatc actggcattt gatggggaat aacataagcc 2040
tgggctctga gcctcagctg agccctggaa gattctcccc atggggcaga gtggtctcct 2100
tacgtgctca cacccagtca gcttgggtcc ctatctctgg ccagagtttg gcaggactgc 2160
cattatctgg ggtgtggcct ctgccagcaa gagaagtgtc ctgggtgttt ttaatcatgt 2220
ttgaatgtta ggggttggat cctagagtag atgcctgagg ccacatctga acagacctgt 2280
cagccaggcc tgccaggtct tcacgttgag gattcaactg gccaatcaca ggacaggtgt 2340
cctggccttt cttcctgagg tctctagggg aggggcatgg gtaagggtgt ttcctcagca 2400
ccctcctggg gtggggatta tgtctgctgt catgtctggg tctttaaggt aggaca 2456

<210> 54
<211> 1771
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2226116CB1

<400> 54
cggctcgagt taatattttc gttgagcgga accttgctat tccataagag gatgtgtcca 60
gtgttgtgga agatttcatg ttttaaatcc tttgtacaga aatcctgctc ccaagtcaca 120
gataggctga cgggtcagag ggcaagacgt gacccagggc cgagagggtg agtgaccagg 180
aaaatcggat tcatcagttc acttgtttgt ttcagaaacg tgcacaaaga cctgctgcat 240
gaggccctcg tcttcagttt ctgtttcatg cccagcatta aaccaagtat ctcattttgc 300
caatttgact tctgtagggg ccatggcacc tgcaaggtgt ttctcagcaa gattgaggac 360

cgtgtttcag ggcgtggggc attgggcttt gtccacatgg gctggcctga agcccagccg 420
gctactgcca cagcgggctt ctcccaggct gctctcggtc ggccgtgcgg acctcgccaa 480
gcatcaggaa ctcccgggga agaagctgct ctctgagaaa aagctgaaaa ggtactttgt 540
ggactatcgg agagtgcttg tctgtggagg aaacggaggc gctggggcaa gctgcttcca 600
cagtgagccc cgcaaggagt ttggaggccc tgatggaggg gacggaggca acggtggaca 660
cgtcattctg agagttgacc agcaagtcaa gtccctgtcg tcggtcctgt cgcggtacca 720
gggtttcagt ggagaagatg gagggagtaa aaactgcttc gggcgcagtg gcgccgtcct 780
ctacatccgg gtccccgtgg gcacgctggt gaaggaggga ggcagagttg tggccgacct 840
gtcttgcgtg ggagatgagt acattgccgc gctgggcggg gcaggaggga aaggcaaccg 900
cttcttcctg gccaacaaca accgtgcccc tgtgacctgt acccctggac agccaggaca 960
gcagcgagtt ctccacctgg agctcaagac ggtggcccac gccggaatgg tgggattccc 1020
caacgccggg aagtcctcac tgctccgggc catttcaaac gccagacccg ccgtggcttc 1080
ctacccgttc accaccctga agccccacgt cgggatcgtc cactacgaag gccacctaca 1140
aatagcagtg gccgacatcc ccggcatcat acgaggcgcc caccagaaca ggggtctggg 1200
gtccgccttc ctcaggcaca tcgagcgctg ccgctttctc ttgttcgtgg tggatctttc 1260
tcagcctgag ccgtggactc aagttgacga tttaaaatat gaactggaga tgtatgaaaa 1320
gggcctgtct gcgaggcccc acgcaatcgt cgcaaacaag attgacctcc ctgaagccca 1380
agccaatctg tcccagctcc gggatcactt gggacaggag gtcatcgtgc tgtcggcgtt 1440
gaccggcgag aacctggagc agctgctgtt gcacctgaag gtgctgtatg acgcctacgc 1500
ggaggccgag ctgggccagg gccgccagcc gctcaggtgg tagccacgcc agagcggggt 1560
cgcctctggg cctctgtctg agcaaacctg ggtgtgaatt cggtggtttt gaatgcataa 1620
agtgccttgt ggacacgggg gagttgtggt gcttctgggt ctctgggccc cgcctgctgg 1680
cctgagatgc cctcatgttg ggaagcattc cgtgcccccc accccgcctg ccctccgtat 1740
ttcctgcacc tgtcagcctg cgctgactga t 1771

<210> 55
<211> 2724
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2504472CB1

<400> 55
gctgaccagt tggcgacatg gtggcacccg tgctggagac ttctcacgtg ttttgctgcc 60
caaaccgggt gcggggagtc ctgaactgga gctctgggcc cagaggactt ctggcctttg 120
gcacgtcctg ctccgtggtg ctctatgacc ccctgaaaag ggttgttgtt accaacttga 180
atggtcacac cgcccgagtc aattgcatac agtggatttg taaacaggat ggctcccctt 240
ctactgaatt agtttctgga ggatctgata atcaagtgat tcactgggaa atagaggata 300
atcagctttt aaaagcagtg catcttcaag gccatgaagg acctgtttat gcggtgcatg 360
ctgtttacca gaggaggaca tcagatcctg cattatgtac actgatcgtt tctgcagctg 420
cagattctgc tgttcgactc tggtctaaaa agggtccaga agtaatgtgc cttcagactt 480
taaactttgg aaatggattt gctttggctc tctgcttatc ttttttgcca aatactgatg 540
taccaatatt agcatgtggc aatgatgatt gcagaattca catatttgct caacaaaatg 600
atcagtttca gaaagtgctt tctctctgtg gacatgagga ttggattaga ggagtggaat 660
gggcagcctt tggtagagat cttttcctag caagctgttc acaagattgc ctgataagaa 720
tatggaagct gtatataaag tcaacatctt tagaaactca ggatgacgat aacataagac 780
tgaaagaaaa tacttttacc atagaaaatg aaagtgttaa aatagcattt gctgttactc 840
tggagacagt gctagccggt catgaaaact gggtaaatgc agttcactgg caacctgtgt 900
tttacaaaga tggtgtccta cagcagccag tgagattatt atctgcttcc atggataaaa 960
ccatgattct ctgggctcca gatgaagagt caggagtttg gctagaacag gttcgagtag 1020
gtgaagtagg tgggaatact ttgggatttt atgattgcca gttcaatgaa gatggctcca 1080
tgatcattgc tcatgctttc cacggagcgt tgcacctttg gaaacagaat acagttaacc 1140

caagagagtg gactccagag attgtcattt caggacactt tgatggtgtc caagacctag 1200
tctgggatcc agaaggagaa tttattatca ctgttggtac tgatcagaca actagacttt 1260
ttgctccatg gaagagaaaa gaccaatcac aggtgacttg gcatgaaatt gcaaggcctc 1320
agatacatgg gtatgacctg aaatgtttgg caatgattaa tcggtttcag tttgtatctg 1380
gagcagatga aaaagttctt cgggtttttt ctgcacctcg gaattttgtg gaaaattttt 1440
gtgccattac aggacaatca ctgaatcatg tgctctgtaa tcaagatagt gatcttccag 1500
aaggagccac tgtccctgca ttgggattat caaataaagc tgtctttcag ggagatatag 1560
cttctcagcc ttctgatgaa gaggagctgt taactagtac tggttttgag tatcagcagg 1620
tggcctttca gccctccata cttactgagc ctcccactga ggatcatctt ctgcagaata 1680
ctttgtggcc tgaagttcaa aaactatatg ggcacggtta tgaaatattt tgtgttactt 1740
gtaacagttc aaagactctg cttgcctcag cttgtaaggc agctaagaaa gagcatgcag 1800
ctatcattct ttggaacact acatcttgga aacaggtgca gaatttagtt ttccacagtt 1860
tgacagtcac gcagatggcc ttctcaccta atgagaagtt cttactagct gtttccagag 1920
atcgaacctg gtcattgtgg aaaaagcagg atacaatctc acctgagttc gagccagttt 1980
ttagtctttt tgccttcacc aacaaaatta cttctgtgca cagtagaatt atttggtctt 2040
gtgattggag tcctgacagc aagtatttct tcactgggag tcgagacaaa aaggtggttg 2100
tctggggtga gtgcgactcc actgatgact gtattgagca caacattggc ccctgctcct 2160
cagtcctgga cgtgggtggg gctgtgacag ctgtcagcgt ctgcccagtg ctccaccctt 2220
ctcaacgata cgtggttgca gtaggattgg agtgtggaaa gatttgctta tatacctgga 2280
aaaagactga tcaagttcca gaaataaatg actggaccca ctgtgtagaa acaagtcaaa 2340
gccaaagtca tacactggct atcagaaaat tatgctggaa gaattgcagt ggaaaaactg 2400
aacagaagga agcagaaggt gctgagtggt tacactttgc aagctgtggt gaagatcaca 2460
ctgtgaagat acacagagtc aataaatgtg cactgtaatg gacttaataa ctacatgctt 2520
gcagtcactg gtatcttaaa atattatcat gtaaacaggt catctttacc ttcataactg 2580
aattgagttt ctgggttttt ttttttttg agatggagtc ttgctttgtc acaacctcca 2640
cctcccaggt tcaagcgatt ctctttcttc agcctcctga gtagctggga ctagaggcac 2700
accaccatgc ccggctaatt tttg 2724

<210> 56
<211> 2963
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3029920CB1

<400> 56
ggccgaagag gctggcaggt ggcgccgtgg ggtgggtgct cctggtgaga ggagtccact 60
ccgtgcgtgc gggcggaggc cggcccccga gagccgccga catgaagaaa gacgtgcgga 120
tcctgctggt gggagaacct agagttggga agacatcact gattatgtct ctggtcagtg 180
aagaatttcc agaagaggtt cctccccggg cagaagaaat caccattcca gctgatgtca 240
ccccagagag agttccaaca cacattgtag attactcaga agcagaacag agtgatgaac 300
aacttcatca agaaatatct caggctaatg tcatctgtat agtgtatgcc gttaacaaca 360
agcattctat tgataaggta acaagtcgat ggattcctct cataaatgaa agaacagaca 420
aagacagcag gctgccttta atattggttg ggaacaaatc tgatctggtg gaatatagta 480
gtatggagac catccttcct attatgaacc agtatacaga aatagaaacc tgtgtggagt 540
gttcagcgaa aaacctgaag aacatatcag agctctttta ttacgcacag aaagctgttc 600
ttcatcctac agggcccctg tactgcccag aggagaagga gatgaaacca gcttgtataa 660
aagcccttac tcgtatattt aaaatatctg atcaagataa tgatggtact ctcaatgatg 720
ctgaactcaa cttctttcag aggatttgtt tcaacactcc attagctcct caagctctgg 780
aggatgtcaa gaatgtagtc agaaaacata taagtgatgg tgtggctgac agtgggttga 840
ccctgaaagg ttttctcttt ttacacacac tttttatcca gagagggaga cacgaaacta 900
cttggactgt gcttcgacga tttggttatg atgatgacct ggatttgaca cctgaatatt 960

tgttcccccc gctgaaaata cctcctgatt gcactactga attaaatcat catgcatatt 1020
tatttctcca aagcaccttt gacaagcatg atttggatag agactgtgct ttgtcacctg 1080
atgagcttaa agatttattt aaagttttcc cttacatacc ttgggggcca gatgtgaata 1140
acacagtttg taccaatgaa agaggctgga taacctacca gggattcctt tcccagtgga 1200
cgctcacgac ttatttagat gtacagcggt gcctggaata tttgggctat ctaggctatt 1260
caatattgac tgagcaagag tctcaagctt cagctgttac agtgacaaga gataaaaaga 1320
tagacctgca gaaaaaacaa actcaaagaa atgtgttcag atgtaatgta attggagtga 1380
aaaactgtgg gaaaagtgga gttcttcagg ctcttcttgg aagaaactta atgaggcaga 1440
agaaaattcg tgaagatcat aaatcctact atgcgattaa cactgtttat gtatatggac 1500
aagagaaata cttgttgttg catgatatct cagaatcgga atttctaact gaagctgaaa 1560
tcatttgtga tgttgtatgc ctggtatatg atgtcagcaa tcccaaatcc tttgaatact 1620
gtgccaggat ttttaagcaa cactttatgg acagcagaat accttgctta atcgtagctg 1680
caaagtcaga cctgcatgaa gttaaacaag aatacagtat ttcacctact gatttctgca 1740
ggaaacacaa aatgcctcca ccacaagcct tcacttgcaa tactgctgat gcccccagta 1800
aggatatctt tgttaaattg acaacaatgg ccatgtatcc gcacgtgaca caagctgacc 1860
tcaagagctc cacgttttgg cttcgagcaa gttttggtgc tactgttttt gcagttttgg 1920
gctttgctat gtacaaagca ttattgaaac agcgatgata taaaaagaaa tactgtccct 1980
accaaaaaca aatactttta tgtacattct gaatgcttta agttctgcta gaattattga 2040
gatatttata catgcagagt tactttatta atatttgtaa ttcatgcata agagtatttt 2100
aatgatagtt ataactgcag tattggctag catatggaaa gaaaacagct aacagccaaa 2160
ctaaaatggc taaattccag aggccaaaag ggaatatttt gtaaatatat gtacatattc 2220
aggcaagata tggtctccca agctgagttc tagaaatgat gtttctagac atttctaagt 2280
ggtattgtta gtgctcactt ggctcactct tctaggttta agttagccca gagattgtat 2340
ttactcatgg atcactttat ttatttcaca tttactcaga atgatccttt gggttctata 2400
aggacataag gtacaatttg ccattgtctc tccattttta aaaacataca agtcagtgtc 2460
agcttaccaa catgacattt tttcagtcag ttgtggtagg ccagccttga agccatcgca 2520
cagtctagaa acttgtgtag ctgagtgtgc agctcacctt taagggtgaa gttaggtaaa 2580
agcaattagc agaggcgtta tctatgtgat tatgttgctt ccttgtcagt atgttgaatt 2640
ttatagccct ttcaatgaaa taaaaaaaaa atttgtatat taccaatgtt tttagtttaa 2700
ataaagagtc acccttacta ctgttgaatt tcatcccaag tgtaaatcat tctataatgg 2760
ctgtgtctgt tatagtatat tacagtaact gcatgtgtca ccaagtgttc tatatcaggc 2820
taggataacc tagaggcagt aatttttaa atgataaaat aaatctaatg aatataaact 2880
ctcatgataa acctattttt tccatcatca gccttttcaa gtatttaaat aaataactgc 2940
tgtgtactgt gaaaaaaaaa aaa 2963

<210> 57
<211> 3332
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3332415CB1

<400> 57
gcctggcaga ggctggcggg catcgtgccc gtccctgccg gtctcccggg cacccggcca 60
ccgccccacc ccctcctccc tgccatggag cccgagctgg acgctcagaa gcagcctcga 120
ccgcggaggc gaagccgccg ggcctctggg ctcagcacgg agggagcgac ggggccttcg 180
gccgacacct ccgggtcgga gctggacggg agatgttccc ttcggagagg cagctccttc 240
acattcttaa cacctggccc caactgggac ttcactttga aaagaaaacg cagagagaaa 300
gatgatgatg ttgtaagcct tagcagcctt gatctgaagg agccaagcaa taaaagagtt 360
cgacctctgg ctcgtgtcac gtccttggca aatttaatct ctcctgtaag aaatggagct 420
gtcagacgtt ttggtcaaac aatacagtca tttacccttc gtggtgacca cagatcccca 480
gcctctgccc agaagttttc tagcaggtca acagtcccaa cacccgccaa gagaaggagc 540

agtgcactgt ggtcagagat gctggacatc accatgaagg agtctctcac caccagggag 600
atcagacggc aggaggcaat atatgaaatg tcccgaggtg aacaggattt aattgaggat 660
ctcaaacttg caagaaaggc ctaccatgac cccatgttaa agttgtccat catgtcagaa 720
gaggaactca cacatatatt tggtgatctg gactcttaca tacctctgca tgaagatttg 780
ttgacaagaa taggagaagc aaccaagcct gatggaacag tggagcagat tggtcacatt 840
ctcgtgagct ggttaccgcg cttgaatgcc tacagaggtt actgtagtaa ccagctggca 900
gccaaagctc ttcttgatca aaagaaacag gatccaagag tccaagactt cctccagcga 960
tgtctcgagt ctcccttcag tcgaaaacta gatctttgga gtttcctaga tatccctcga 1020
agtcgcctag tcaaataccc tttactgtta aaagaaattc ttaaacacac tccaaaagag 1080
caccctgatg ttcagcttct ggaggatgct atattgataa tacagggagt cctctctgat 1140
atcaacttga agaaaggtga atccgagtgc cagtattaca tcgacaagct ggagtacctg 1200
gatgaaaagc agagggaccc cagaatcgaa gcgagcaaag tgctgctgtg ccatggggag 1260
ctgcggagca agagtggaca taaactttac attttcctgt ttcaagacat cttggttctg 1320
actcggcccg tcacacggaa cgaacggcac tcttaccagg tttaccggca gccaatccca 1380
gtccaagagc tagtcctaga agacctgcag gatggagatg tgagaatggg aggctccttt 1440
cgaggagctt tcagtaactc agagaaagct aaaaatatct ttagaattcg cttccatgac 1500
ccctctccag cccagtctca cactctgcaa gccaatgacg tgttccacaa gcagcagtgg 1560
ttcaactgta ttcgagcggc cattgccccc ttccagtcgg caggcagtcc acctgagctg 1620
cagggcctgc cggagctgca cgaagagtgt gaggggaacc acccctctgc gaggaaactc 1680
acagcccaga ggagggcatc cacagtttcc agtgttactc aggtagaagt tgatgaaaac 1740
gcttacagat gtggctctgg catgcagatg gcagaggaca gcaagagctt aaagacacac 1800
cagacacagc ccggcatccg aagagcgagg gacaaagccc tttctggtgg caaacggaaa 1860
gagactttgg tgtagagaag gctctgtgtg ttaactgatg ggagagactg tttgtttata 1920
aatgtgtaca gttttgtttt ctcgtaaggg gagcatcata gggttacttt ataccagttg 1980
taacattttc attgtttttg gttgttcttt tttctttttt taatggcagc taaagatata 2040
cagattactg ttaaattgca gtccttttt ttttaaagat attttcttga gttatttaga 2100
acatggtaag cctggtattt tttaatcaaa caaaatattt atgaaatggg ttttctctta 2160
attctggatt catcatggct ttctaatacc aattgtaata tttacaatat tcaccaaaac 2220
ttagaatttt gcaaatgctg gaattctgcc agtgtttctt tgctaagcct tgcatgcaaa 2280
atttgaaatt ttaacattgg cacccaaaac ctacatggaa tgtatgtctg gagtatttca 2340
aactttacat tgaaacataa tttccttgga aaacaaacca taagcctgag gaggttttta 2400
tcaactggaa tgctttatat tagtttgttt ttcactgtac attcctcatt ttacattcat 2460
ttaacctgcc gattatttaa ttttttttatt gtaaagtagt ttttagcatt tgcttttatt 2520
tttttacttt gatgcctttt caaattggca tgtctttaaa gtatttttct tcctgattaa 2580
aaatgtgtgt gtatgtgtgt gtgtgtgtgt atatatatat attttttaa atcacattaa 2640
ttttaccaag tgaaaccaag ccatactgtt tttgagccaa ttaagaaaat tgccattttt 2700
aaagtgtagc atttcagggt aaagacccat gaaatggctt gatgtattct agactactga 2760
aagaaaacca cttcaaagat tttgttgaaa gttttagtgt tgtctgaaat gcaagaggga 2820
aggtgattgg tagtgagtta aaagaaaaag agaggaaaag agagtagttt tgtcttcaag 2880
taaaatgtct ggttgtgcca gacatttcac aagtgtgaaa ggagatagga gaagctcaac 2940
ttgagggcgt gtagtaagtt gtagaaggct cgaggggacg tggacttatt tgccttggtt 3000
tgcaatacct gcaaataatg agtttgaaaa gaaacaatga aatgtgttaa aaatttgacc 3060
atattagata aattttggtg gatttagtca taagatggaa aaagactggt gaatctttta 3120
ttacaaaatg tttctgttaa aatgggatca tcatctttga aaggggggag gaggagtaaa 3180
agcccgatta taatggtgat caattcaagt cagtgttgac tattctgtga aatatatttg 3240
gccagtggaa atgataatca gaaaagactg taaatagatc catccaaatg atttctctgt 3300
acaaatgaat gatactatta aaaaaaaaaa aa 3332

<210> 58
<211> 2617
<212> DNA
<213> Homo sapiens

<220>

<223> Incyte ID No: 4031536CB1

<400> 58

```
tttagtaatg tgcctgtatt acatgtagag agtattcgtc aaccaagagg agttttaaaa  60
tgtcaaaacc gggaaaacct actctaaacc atggcttggt tcctgttgat cttaaaagtg 120
caaaagagcc tctaccacat caaactgtga tgaggatatt tagcattagc atcattgccc 180
aaggcctccc tttttgtcga agacggatga aaagaaagtt ggaccatggt tctgaggtcc 240
gctctttttc tttgggaaag aaaccatgca aagtctcaga atatacaagt accactgggc 300
ttgtaccatg ttcagcaaca ccaacaactt ttggggacct cagagcagcc aatggccaag 360
ggcaacaacg acgccgaatt acatctgtcc agccacctac aggcctccag gaatggctaa 420
aaatgtttca gagctggagt ggaccagaga aattgcttgc tttagatgaa ctcattgata 480
gttgtgaacc aacacaagta aaacatatga tgcaagtgat agaaccccag tttcaacgag 540
acttcatttc attgctccct aaagagttgg cactctatgt gctttcattc ctggaaccca 600
aagacctgct acaagcagct cagacatgtc gctactggag aattttggct gaagacaacc 660
ttctctggag agagaaatgc aaagaagagg ggattgatga accattgcac atcaagagaa 720
gaaaagtaat aaaaccaggt ttcatacaca gtccatggaa aagtgcatac atcagacagc 780
acagaattga tactaactgg aggcgaggag aactcaaatc tcctaaggtg ctgaaaggac 840
atgatgatca tgtgatcaca tgcttacagt tttgtggtaa ccgaatagtt agtggttctg 900
atgacaacac tttaaaagtt tggtcagcag tcacaggcaa atgtctgaga acattagtgg 960
gacatacagg tggagtatgg tcatcacaaa tgagagacaa catcatcatt agtggatcta 1020
cagatcggac actcaaagtg tggaatgcag agactggaga atgtatacac accttatatg 1080
ggcatacttc cactgtgcgt tgtatgcatc ttcatgaaaa aagagttgtt agcggttctc 1140
gagatgccac tcttagggtt tgggatattg agacaggcca gtgtttacat gttttgatgg 1200
gtcatgttgc agcagtccgc tgtgttcaat atgatggcag gagggttgtt agtggagcat 1260
atgattttat ggtaaaggtg tgggatccag agactgaaac ctgtctacac acgttgcagg 1320
ggcatactaa tagagtctat tcattacagt ttgatggtat ccatgtggtg agtggatctc 1380
ttgatacatc aatccgtgtt tgggatgtgg agacagggaa ttgcattcac acgttaacag 1440
ggcaccagtc gttaacaagt ggaatggaac tcaaagacaa tattcttgtc tctgggaatg 1500
cagattctac agttaaaatc tgggatatca aaacaggaca gtgtttacaa acattgcaag 1560
gtcccaacaa gcatcagagt gctgtgacct gtttacagtt caacaagaac tttgtaatta 1620
ccagctcaga tgatggaact gtaaaactat gggacttgaa aacgggtgaa tttattcgaa 1680
acctagtcac attggagagt gggggggagtg ggggagttgt gtggcggatc agagcctcaa 1740
acacaaagct ggtgtgtgca gttgggagtc ggaatgggac tgaagaaacc aagctgctgg 1800
tgctggactt tgatgtggac atgaagtgaa gagcagaaaa gatgaatttg tccaattgtg 1860
tagacgatat actccctgcc cttccccctg caaaaagaaa aaaagaaaag aaaaagaaaa 1920
aaatcccttg ttctcagtgg tgcaggatgt tggcttgggg caacagattg aaaagaccta 1980
cagactaaga aggaaaagaa gaagagatga caaaccataa ctgacaagag aggcgtctgc 2040
tgtctcatca cataaaaggc ttcacttttg actgagggca gctttgcaaa atgagacttt 2100
ctaaatcaaa ccaggtgcaa ttatttcttt attttcttct ccagtggtca ttgggcagtg 2160
ttaatgctga aacatcatta cagattctgc tagcctgttc ttttaccact gacagctaga 2220
cacctagaaa ggaactgcaa taatatcaaa acaagtactg gttgactttc taattagaga 2280
gcatctgcaa caaaaagtca tttttctgga gtggaaaagc ttaaaaaaat tactgtgaat 2340
tgtttttgta cagttatcat gaaaagcttt ttttttttt tttgccaacc attgccaatg 2400
tcaatcaatc acagtattag cctctgttaa tctatttact gttgcttcca tatacattct 2460
tcaatgcata tgttgctcaa aggtggcaag ttgtcctggg ttctgtgagt cctgagatgg 2520
atttaattct tgatgctggt gctagaagta ggtcttcaaa tatgggattg ttgtcccaac 2580
cctgtactgt actcccagtg gccaaactta tttatgc                          2617
```